		1	employment		ange		Annual ave		1011171100 2002 2012			
SOC Code	Occupational Title	2002	2012	Numeric		New Jobs	Replace- ments	Total	Typical education or training path	Annual average wage	Middle 50	
00-0000	Total, All Occs	302,080	338,060	35,980	11.9%	3,600	7,330	10,930		\$32,605	\$9.33 -	
11-0000	Management Occs	11,890	13,590	1,700	14.3%	170	220	390		\$74,567	\$21.41 -	\$43.49
11-1011	Chief Executives	510	580	70	13.7%	10	10	20	Bachelor's degree or more, plus work exp.	\$154,669	\$48.06 -	
11-1021	General and Operations Mgrs	3,240	3,650	410	12.7%	40	60	100	Bachelor's degree or more, plus work exp.	\$86,044	\$23.14 -	\$51.22
11-1031	Legislators	690	660	-30	-4.3%	<5	10	10	Bachelor's degree or more, plus work exp.	\$19,149	\$6.07 -	\$7.13
11-2011	Advertising/Promotions Mgrs	170	190	20	11.8%	<5	<5	<5	Bachelor's degree or more, plus work exp.	\$54,749	\$17.43 -	\$32.31
11-2021	Marketing Mgrs	220	260	40	18.2%	<5	<5	<5	Bachelor's degree or more, plus work exp.	\$77,247	\$25.02 -	\$45.90
11-2022	Sales Mgrs	520	660	140	26.9%	10	10	20	Bachelor's degree or more, plus work exp.	\$83,868	\$25.73 -	\$48.24
11-2031	Public Relations Mgrs	100	110	10	10.0%	<5	<5	<5	Bachelor's degree or more, plus work exp.	\$61,780	\$20.63 -	\$34.97
11-3011	Administrative Services Mgrs	430	480	50	11.6%	10	10	20	Bachelor's degree or more, plus work exp.	\$63,172	\$22.95 -	\$37.04
11-3021	Computer/Information Systems Mgrs	420	550	130	31.0%	10	10	20	Bachelor's degree or more, plus work exp.	\$83,127	\$31.59 -	\$45.60
11-3031	Financial Mgrs	740	860	120	16.2%	10	10	20	Bachelor's degree or more, plus work exp.	\$82,107	\$26.37 -	\$46.47
11-3040	Human Resources Mgrs	310	360	50	16.1%	10	10	20	Bachelor's degree or more, plus work exp.	\$68,397	\$24.41 -	\$39.31
11-3051	Industrial Production Mgrs	680	730	50	7.4%	10	10	20	Bachelor's degree	\$65,811	\$24.13 -	\$36.88
11-3061	Purchasing Mgrs	210	210	0	0.0%	<5	10	10	Bachelor's degree or more, plus work exp.	\$66,707	\$22.05 -	\$38.52
11-3071	Transportation/Storage/Distrib Mgrs	190	230	40	21.1%	<5	<5	<5	Work exp. in a related occupation	\$72,644	\$26.80 -	\$43.85
11-9011	Farm/Ranch/Other Ag Mgrs	*	*	*	*	<5	<5	<5	Bachelor's degree or more, plus work exp.	*	* -	*
11-9021	Construction Mgrs	270	330	60	22.2%	10	10	20	Bachelor's degree	\$72,762	\$23.40 -	\$42.16
11-9031	Educ Admin, Preschool/Child Care	160	200	40	25.0%	<5	<5	<5	Bachelor's degree or more, plus work exp.	\$42,112	\$13.05 -	\$22.55
11-9032	Educ Admin, Elem/Sec School	330	390	60	18.2%	10	10	20	Bachelor's degree or more, plus work exp.	\$80,102	-	
11-9033	Educ Admin, Postsecondary	250	300	50	20.0%	10	10	20	Bachelor's degree or more, plus work exp.	\$60,349	\$21.05 -	\$35.31
11-9039	Educ Admin, All Other	*	*	*	*	<5	<5	<5	Bachelor's degree or more, plus work exp.	*	* -	*
11-9041	Engineering Mgrs	410	440	30	7.3%	<5	10	10	Bachelor's degree or more, plus work exp.	\$84,637	\$33.04 -	\$47.61
11-9051	Food Service Mgrs	470	530	60	12.8%	10	10	20	Work exp. in a related occupation	\$33,786	\$12.93 -	\$18.27
11-9061	Funeral Directors	70	80	10	14.3%	<5	<5	<5	Associate degree	\$46,042	\$15.70 -	\$26.57
11-9071	Gaming Mgrs	*	*	*	*	<5	<5	<5	Work exp. in a related occupation	*	* -	*
11-9081	Lodging Mgrs	100	110	10	10.0%	<5	<5	<5	Work exp. in a related occupation	\$31,701	\$8.81 -	\$17.55
11-9111	Medical/Health Services Mgrs	410	550	140	34.1%	10	10	20	Bachelor's degree or more, plus work exp.	\$60,779	\$22.75 -	\$35.11
11-9121	Natural Sciences Mgrs	30	30	0	0.0%	<5	<5	<5	Bachelor's degree or more, plus work exp.	\$87,831	\$32.75 -	\$49.05
11-9131	Postmasters/Mail Superintendents	60	60	0	0.0%	<5	<5	<5	Work exp. in a related occupation	\$52,173	\$21.71 -	\$27.16
11-9141	Prop/RE/Community Assoc Mgrs	100	120	20	20.0%	<5	<5	<5	Bachelor's degree	\$75,457	\$15.81 -	\$49.98

		Estimate employment					nnual ave		IEIT AIGA 2002-2012			
SOC Code	Occupational Title	2002	2012	Numeric	ŭ	New Jobs	Replace- ments	Total	Typical education or training path	Annual average wage	Middle 50	
11-9151	Social/Community Service Mgrs	230	260	30	13.0%	<5	<5		Bachelor's degree	\$45,167	\$16.63 -	\$26.96
11-9199	Mgrs, All Other	520	580	60	11.5%	10	10	20	Work exp. in a related occupation	\$70,572	\$23.50 -	\$38.61
13-0000	Business/Financial Operations Occs	9,160	10,850	1,690	18.4%	170	170	340		\$45,183	\$14.16 -	\$26.94
13-1011	Agents/Bus Mgrs Artsts/Prfrmrs/Ath	*	*	*	*	<5	<5	<5	Bachelor's degree or more, plus work exp.	*	* -	*
13-1021	Purch Agents/Buyers Farm Prod	30	40	10	33.3%	<5	<5	<5	Work exp. in a related occupation	\$44,970	\$14.38 -	\$27.76
13-1022	Whole/Retail Buyers Ex Farm Prod	250	270	20	8.0%	<5	10	10	Bachelor's degree	\$52,160	\$15.54 -	\$34.95
13-1023	Purch Agents Ex Whole/Retail/Farm	650	720	70	10.8%	10	20	30	Bachelor's degree	\$44,856	\$15.28 -	\$26.41
13-1031	Claims Adjust/Exam/Investigators	760	910	150	19.7%	10	10	20	Long-term on-the-job training	\$29,811	\$11.30 -	\$16.44
13-1032	Insurance Appraisers Auto Damage	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	* -	*
13-1041	Compl Offcrs Ex Ag/Cnst/Hlth/Sfty/Tr	220	250	30	13.6%	<5	10	10	Long-term on-the-job training	\$42,728	\$16.40 -	\$25.17
13-1051	Cost Estimators	550	660	110	20.0%	10	10	20	Bachelor's degree	\$41,985	\$15.22 -	\$23.11
13-1061	Emergency Mgmt Specialists	50	60	10	20.0%	<5	<5	<5	Work exp. in a related occupation	\$51,866	\$18.05 -	\$31.76
13-1071	Empl/Recruit/Placement Specialists	310	360	50	16.1%	10	10	20	Bachelor's degree	\$41,424	\$15.66 -	\$22.63
13-1072	Compen/Benefits/Job Specialists	230	270	40	17.4%	10	<5	10	Bachelor's degree	\$39,730	\$15.96 -	\$22.30
13-1073	Training/Development Specialists	400	490	90	22.5%	10	10	20	Bachelor's degree	\$46,439	\$15.31 -	\$28.09
13-1111	Management Analysts	370	430	60	16.2%	10	10	20	Bachelor's degree or more, plus work exp.	\$62,473	\$22.19 -	\$37.42
13-1121	Meeting and Convention Planners	90	110	20	22.2%	<5	<5	<5	Bachelor's degree	\$38,979	\$14.56 -	\$22.48
13-1199	Business Oper Specialists/All Other	1,660	2,030	370	22.3%	40	30	70	Bachelor's degree	\$42,285	\$6.74 -	\$27.61
13-2011	Accountants and Auditors	1,940	2,290	350	18.0%	40	40	80	Bachelor's degree	\$54,958	\$18.37 -	\$31.65
13-2021	Appraisers/Assessors Real Estate	100	110	10	10.0%	<5	<5	<5	Postsecondary vocational training	\$42,046	\$15.35 -	\$26.09
13-2031	Budget Analysts	90	100	10	11.1%	<5	<5	<5	Bachelor's degree	\$54,899	\$20.17 -	\$31.08
13-2041	Credit Analysts	90	100	10	11.1%	<5	<5	<5	Bachelor's degree	\$41,172	\$14.57 -	\$23.83
13-2051	Financial Analysts	130	150	20	15.4%	<5	<5	<5	Bachelor's degree	\$55,473	\$19.99 -	\$32.93
13-2052	Personal Financial Advisors	110	150	40	36.4%	<5	<5	<5	Bachelor's degree	\$58,034	\$15.07 -	\$29.20
13-2053	Insurance Underwriters	360	410	50	13.9%	10	10	20	Bachelor's degree	\$43,884	\$15.22 -	\$25.84
13-2061	Financial Examiners	*	*	*	*	<5	<5	<5	Bachelor's degree	*	* -	*
13-2071	Loan Counselors	30	30	0	0.0%	<5	<5	<5	Bachelor's degree	\$42,450	\$15.21 -	\$22.33
13-2072	Loan Officers	450	520	70	15.6%	10	10	20	Bachelor's degree	\$44,711	\$16.19 -	\$23.71
13-2081	Tax Exam/Collctrs/Revenue Agents	40	40	0	0.0%	<5	<5	<5	Bachelor's degree	\$57,697	\$19.41 -	\$35.33
13-2082	Tax Preparers	110	140	30	27.3%	<5	<5	<5	Moderate-term on-the-job training	\$26,107	\$9.15 -	\$14.69
13-2099	Financial Specialists/All Other	100	120	20	20.0%	<5	<5	<5	Bachelor's degree	\$50,026	\$16.02 -	\$29.52

		Estimate e	employment	Cha	nge	-	Annual ave	rage				
			, ,		<u> </u>			<u> </u>	1	Annual		
		2002	2012	Numorio	Percent	New Jobs	Replace-	Total		average	Middle 50	
15-0000	Occupational Title Computer & Mathematical Occs	3,960	4,940	Numeric 980	24.7%	100	ments 60	160	Typical education or training path	wage \$51,309	hourly wag \$18.22 -	
15-1011	Computer/Info Scientists/Research	3,900	10	0	0.0%	<5	<5		Doctoral degree	\$71,495	\$24.35 -	
15-1021	Computer Programmers	700	690	-10	-1.4%	<5	20		Bachelor's degree	\$53,546	\$20.51 -	
15-1031	Computer Software Engnrs Apps	320	430	110	34.4%	10	<5		Bachelor's degree	\$62,676	\$23.22 -	\$37.90
15-1032	Computer Soft Engnrs Systms Soft	130	190	60	46.2%	10	<5		Bachelor's degree	\$61,666	\$24.27 -	\$36.03
15-1041	Computer Support Specialists	690	830	140	20.3%	10	10		Associate degree	\$37,170	\$13.91 -	\$21.43
15-1051	Computer Systems Analysts	910	1,200	290	31.9%	30	10		Bachelor's degree	\$60,171	\$23.76 -	\$34.43
15-1061	Database Administrators	180	230	50	27.8%	10	<5	10	Bachelor's degree	\$48,364	\$19.67 -	\$26.69
15-1071	Network/Computer Systems Admin	430	540	110	25.6%	10	10	20	Bachelor's degree	\$52,531	\$18.36 -	\$30.70
15-1081	Network Systms/Data Comm Analysts	210	310	100	47.6%	10	<5	10	Bachelor's degree	\$43,285	\$14.91 -	\$26.14
15-1099	Computer Specialists/All Other	280	370	90	32.1%	10	<5	10	Associate degree	\$46,856	\$16.11 -	\$29.52
15-2011	Actuaries	*	*	*	*	<5	<5	<5	Bachelor's degree or more, plus work exp.	*	* -	*
15-2021	Mathematicians	*	*	*	*	<5	<5	<5	Master's degree	*	* -	*
15-2031	Operations Research Analysts	70	70	0	0.0%	<5	<5	<5	Master's degree	\$51,645	\$20.63 -	\$29.04
15-2041	Statisticians	*	*	*	*	<5	<5	<5	Master's degree	*	* -	*
15-2099	Math Science Occs/All Other	*	*	*	*	<5	<5	<5	Master's degree	*	* -	*
17-0000	Architecture/Engineering Occs	6,130	6,380	250	4.1%	30	140	170		\$53,696	\$18.85 -	\$31.20
17-1011	Architects/Ex Landscape/Naval	160	190	30	18.8%	<5	<5	<5	Bachelor's degree	\$60,282	\$24.15 -	\$34.49
17-1012	Landscape Architects	30	40	10	33.3%	<5	<5	<5	Bachelor's degree	\$42,317	\$15.59 -	\$21.56
17-1021	Cartographers/Photogrammetrists	*	*	*	*	<5	<5	<5	Bachelor's degree	*	* -	*
17-1022	Surveyors	110	110	0	0.0%	<5	<5	<5	Bachelor's degree	\$41,707	\$16.22 -	\$24.09
17-2011	Aerospace Engineers	*	*	*	*	<5	<5	<5	Bachelor's degree	*	* -	*
17-2021	Agricultural Engineers	0	0	0	0.0%	<5	<5	<5	Bachelor's degree	\$61,539	\$23.83 -	\$33.98
17-2031	Biomedical Engineers	*	*	*	*	<5	<5	<5	Bachelor's degree	*	* -	*
17-2041	Chemical Engineers	100	100	0	0.0%	<5	<5	<5	Bachelor's degree	\$84,328	\$30.37 -	\$44.71
17-2051	Civil Engineers	360	370	10	2.8%	<5	10	10	Bachelor's degree	\$57,950	\$22.45 -	\$33.44
17-2061	Computer Hardware Engineers	40	40	0	0.0%	<5	<5	<5	Bachelor's degree	\$49,689	\$18.65 -	\$28.58
17-2071	Electrical Engineers	520	500	-20	-3.8%	<5	10	10	Bachelor's degree	\$65,477	\$24.24 -	\$35.79
17-2072	Electronics Engineers/Ex Computer	120	130	10	8.3%	<5	<5	<5	Bachelor's degree	\$59,691	\$22.39 -	\$35.56
17-2081	Environmental Engineers	140	190	50	35.7%	10	<5	10	Bachelor's degree	\$62,768	\$25.05 -	\$35.26
17-2111	Health/Safety Engineers/Ex Mining	130	130	0	0.0%	<5	<5	<5	Bachelor's degree	\$55,675	\$22.04 -	\$31.82

		Estimate e	mployment	: Cha	inge	,	Annual ave	rage				
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		2002	2012	Numaria	Doroont	New	Replace-	Total		average	Middle 50	•
<u>-</u>	Occupational Title	2002	2012	Numeric		Jobs	ments		Typical education or training path	wage	hourly wag	
17-2112	Industrial Engineers	480	510	30	6.3%	<5	10	_	Bachelor's degree	\$61,775		
17-2121	Marine Engineers/Naval Architects	10	10	0	0.0%	<5	<5	<5	Bachelor's degree	\$42,304		\$27.30
17-2131	Materials Engineers	320	330	10	3.1%	<5	10	10	Bachelor's degree	\$54,306		\$28.60
17-2141	Mechanical Engineers	1,000	990	-10	-1.0%	<5	30	30	Bachelor's degree	\$56,917	\$21.27 -	\$32.86
17-2151	Mining/Geological Engineers	*	*	*	*	<5	<5	<5	Bachelor's degree	*	* -	*
17-2161	Nuclear Engineers	10	10	0	0.0%	<5	<5	<5	Bachelor's degree	\$88,025	\$37.82 -	\$44.24
17-2171	Petroleum Engineers	*	*	*	*	<5	<5	<5	Bachelor's degree	*	* -	*
17-2199	Engineers/All Other	370	390	20	5.4%	<5	10	10	Bachelor's degree	\$67,537	\$24.64 -	\$37.04
17-3011	Architectural/Civil Drafters	180	190	10	5.6%	<5	10	10	Postsecondary vocational training	\$35,350		\$20.07
17-3012	Electrical/Electronics Drafters	100	90	-10	-10.0%	<5	<5	<5	Postsecondary vocational training	\$43,129	\$16.82 -	\$24.40
17-3013	Mechanical Drafters	410	400	-10	-2.4%	<5	10	10	Postsecondary vocational training	\$38,308	\$15.05 -	\$21.32
17-3021	Aerospace Engnrng/Opers Techs	*	*	*	*	<5	<5	<5	Associate degree	*	* -	*
17-3022	Civil Engineering Techs	190	190	0	0.0%	<5	<5	<5	Associate degree	\$43,088	\$15.51 -	\$25.36
17-3023	Electrical/Electronic Engnrng Techs	340	350	10	2.9%	<5	10	10	Associate degree	\$44,768	\$16.40 -	\$26.51
17-3024	Electro-Mechanical Techs	80	90	10	12.5%	<5	<5	<5	Associate degree	\$44,795	\$15.99 -	\$26.69
17-3025	Environmental Engineering Techs	40	50	10	25.0%	<5	<5	<5	Associate degree	\$36,448	\$15.17 -	\$20.51
17-3026	Industrial Engineering Techs	200	220	20	10.0%	<5	<5	<5	Associate degree	\$39,533	\$15.46 -	\$22.10
17-3027	Mechanical Engineering Techs	330	340	10	3.0%	<5	10	10	Associate degree	\$50,351	\$14.81 -	\$24.85
17-3031	Surveying/Mapping Techs	110	130	20	18.2%	<5	<5	<5	Moderate-term on-the-job training	\$34,028	\$13.12 -	\$19.31
17-3099 ⁽⁷⁾	Drafters/Engnrng/Map Techs AO	200	220	20	10.0%	<5	10	10	Associate degree	\$38,325	\$14.07 -	\$22.42
19-0000	Life, Physical, and Social Sci Occs	2,480	2,810	330	13.3%	30	60	90		\$46,061	\$16.06 -	\$27.31
19-1010	Agricultural and Food Scientists	70	80	10	14.3%	<5	<5	<5	Bachelor's degree	\$54,527	\$17.26 -	\$32.39
19-1021	Biochemists and Biophysicists	*	*	*	*	<5	<5	<5	Doctoral degree	*	* -	*
19-1022	Microbiologists	*	*	*	*	<5	<5	<5	Doctoral degree	*	* -	*
19-1023	Zoologists and Wildlife Biologists	20	20	0	0.0%	<5	<5	<5	Doctoral degree	\$45,187	\$18.56 -	\$24.57
19-1031	Conservation Scientists	40	40	0	0.0%	<5	<5	<5	Bachelor's degree	\$46,166	\$18.57 -	\$25.65
19-1032	Foresters	40	40	0	0.0%	<5	<5	<5	Bachelor's degree	\$47,920	\$19.08 -	\$26.92
19-1041	Epidemiologists	*	*	*	*	<5	<5	<5	Master's degree	*	* -	*
19-1042	Med Scientists Ex Epidemiologists	*	*	*	*	<5	<5	<5	Doctoral degree	*	* -	*
19-1099	Life Scientists/All Other	50	60	10	20.0%	<5	<5	<5	Bachelor's degree	\$52,689	\$16.92 -	\$33.27
19-2011	Astronomers	*	*	*	*	<5	<5	<5	Doctoral degree	*	* -	*

		Estimate e	employment	Cha	ange		Annual ave	erane			
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						New	Replace-	Total		average	Middle 50 percent
	Occupational Title	2002	2012	Numeric	Percent	Jobs	ments	Openings	Typical education or training path	wage	hourly wage range
19-2012	Physicists	*	*	*	*	<5	<5	<5	Doctoral degree	*	* - *
19-2021	Atmospheric and Space Scientists	*	*	*	*	<5	<5	<5	Bachelor's degree	*	* - *
19-2031	Chemists	250	250	0	0.0%	<5	10	10	Bachelor's degree	\$52,995	\$19.25 - \$28.99
19-2032	Materials Scientists	70	60	-10	-14.3%	<5	<5	<5	Bachelor's degree	\$65,125	\$29.52 - \$34.49
19-2041	Environ Sci/Specialists/Incl Health	90	110	20	22.2%	<5	<5	<5	Master's degree	\$45,658	\$17.92 - \$25.58
19-2042	Geoscien Ex Hydrolog/Geograph	20	20	0	0.0%	<5	<5	<5	Master's degree	\$56,073	\$22.24 - \$33.07
19-2043	Hydrologists	20	30	10	50.0%	<5	<5	<5	Master's degree	\$54,686	\$22.04 - \$27.59
19-2099	Physical Scientists/All Other	40	40	0	0.0%	<5	<5	<5	Bachelor's degree	\$92,155	\$30.07 - \$55.22
19-3011	Economists	*	*	*	*	<5	<5	<5	Master's degree	*	* - *
19-3021	Market Research Analysts	320	380	60	18.8%	10	10	20	Master's degree	\$44,868	\$14.93 - \$27.21
19-3022	Survey Researchers	*	*	*	*	<5	<5	<5	Master's degree	*	* - *
19-3031	Clinical/Counseling/School Psych	250	310	60	24.0%	10	10	20	Doctoral degree	\$57,853	\$23.82 - \$32.67
19-3041	Sociologists	*	*	*	*	<5	<5	<5	Master's degree	*	* - *
19-3051	Urban and Regional Planners	70	70	0	0.0%	<5	<5	<5	Master's degree	\$42,286	\$15.86 - \$25.78
19-3091	Anthropologists/Archeologists	*	*	*	*	<5	<5	<5	Master's degree	*	* - *
19-3092	Geographers	*	*	*	*	<5	<5	<5	Master's degree	*	* - *
19-3093	Historians	*	*	*	*	<5	<5	<5	Master's degree	*	* - *
19-3094	Political Scientists	*	*	*	*	<5	<5	<5	Master's degree	*	* - *
19-3099	Social Scientists/Related Wrkrs AO	120	140	20	16.7%	<5	<5	<5	Master's degree	\$43,299	\$16.79 - \$24.89
19-4011	Agricultural and Food Science Techs	110	110	0	0.0%	<5	<5	<5	Associate degree	\$27,199	\$10.42 - \$14.36
19-4021	Biological Techs	100	110	10	10.0%	<5	<5	<5	Associate degree	\$27,441	\$11.11 - \$14.49
19-4031	Chemical Techs	150	170	20	13.3%	<5	<5	<5	Associate degree	\$30,461	\$12.00 - \$16.97
19-4051 ⁽⁸⁾	Nuclear Techs	(8)	(8)	(8)	(8)	(8)) (8)	(8	³⁾ Associate degree	*	* - *
19-4091	Envir Sci/Protect Techs Incl Health	120	150	30	25.0%	<5	<5	<5	Associate degree	\$42,728	\$18.92 - \$22.24
19-4093	Forest/Conservation Techs	20	20	0	0.0%	<5	<5	<5	Associate degree	\$31,842	\$11.64 - \$19.25
19-4099 ⁽⁸⁾	Life/Physical/Social Sci Techs AO	170	200	30	17.6%	<5	<5	<5	Associate degree	\$32,955	\$12.20 - \$19.24
21-0000	Community/Social Services Occs	4,550	5,370	820	18.0%	80	90	170		\$35,313	\$12.70 - \$20.95
21-1011	Sub Abuse/Behavior Disordr Cnslrs	90	100	10	11.1%	<5	<5	<5	Master's degree	\$41,205	\$16.49 - \$23.42
21-1012	Ed/Vocational/School Counselors	290	320	30	10.3%	<5	10	10	Master's degree	\$44,736	\$16.58 - \$26.01
21-1013	Marriage/Family Therapists	50	60	10	20.0%	<5	<5	<5	Master's degree	\$45,772	\$15.00 - \$28.92
21-1014	Mental Health Counselors	100	130	30	30.0%	<5	<5	<5	Master's degree	\$36,768	\$13.38 - \$21.33

		Estimate e	mployment	Cha	nge	,	Annual ave	rage				
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SOC Code	Occupational Title	2002	2012	Numeric	Percent	New Jobs	Replace- ments	Total Openings	Typical education or training path	average wage	Middle 50	
21-1015	Occupational Title Rehabilitation Counselors	180	240	60	33.3%	10	<5		Master's degree	\$30,724	hourly wag \$10.56 -	
21-1021	Child/Family/School Social Wrkrs	590	700	110	18.6%	10	10		Master's degree	\$38,898		
21-1022	Medical/Public Health Social Wrkrs	230	280	50	21.7%	10	<5		Master's degree	\$36,981	\$14.89 -	
21-1023	Mental Hlth/Sub Abuse Social Wrkrs	170	210	40	23.5%	10	<5		Master's degree	\$34,159		•
21-1091	Health Educators	60	70	10	16.7%	<5	<5	<5	Master's degree	\$34,771	·	
21-1092	Prob Offcrs/Correctnl Treat Spclsts	100	110	10	10.0%	<5	<5	<5	Bachelor's degree	\$38,202		
21-1093	Social/Human Service Assts	650	910	260	40.0%	30	10	40	Moderate-term on-the-job training	\$27,313	\$10.74 -	\$15.33
21-2011	Clergy	1,200	1,230	30	2.5%	<5	30		Master's degree	\$39,419		\$21.85
21-2021	Directors/Religious Activities/Ed	*	*	*	*	<5	<5	<5	Bachelor's degree	*	* -	*
21-9099 ⁽⁷⁾	Counsel/Social/Religious Wrkrs AO	500	610	110	22.0%	10	10	20	Bachelor's degree	\$34,027	\$12.66 -	\$19.94
23-0000	Legal Occs	970	1,170	200	20.6%	20	10	30		\$65,758	\$14.42 -	\$39.34
23-1011	Lawyers	530	670	140	26.4%	10	10	20	First professional degree	\$107,209	\$28.18 -	\$69.28
23-1021	Admin Law Jdgs/Adjudic/Hrng Offcr	*	*	*	*	<5	<5	<5	Bachelor's degree or more, plus work exp.	*	* -	*
23-1022	Arbitrators/Mediators/Conciliators	20	20	0	0.0%	<5	<5	<5	Bachelor's degree or more, plus work exp.	\$29,836	\$11.68 -	\$18.91
23-1023	Jdgs/Magistrate Jdgs/Magistrates	20	30	10	50.0%	<5	<5	<5	Bachelor's degree or more, plus work exp.	\$52,366	\$8.57 -	\$48.70
23-2011	Paralegals and Legal Assistants	190	240	50	26.3%	10	<5	10	Associate degree	\$31,632	\$13.04 -	\$16.98
23-2091	Court Reporters	*	*	*	*	<5	<5	<5	Postsecondary vocational training	*	* -	*
23-2092	Law Clerks	*	*	*	*	<5	<5	<5	Bachelor's degree	*	* -	*
23-2093	Title Exam/Abstractors/Searchers	100	100	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	\$31,447	\$12.11 -	\$17.06
23-9099 ⁽⁷⁾	Legal & Related Wrkrs, All Other	50	50	0	0.0%	<5	<5	<5	Bachelor's degree	\$40,617	\$16.99 -	\$21.40
25-0000	Ed, Training, & Library Occs	13,660	16,260	2,600	19.0%	260	290	550		\$37,270	\$11.84 -	\$23.43
25-1011	Business Teachers, Postsecondary	120	170	50	41.7%	<5	<5	<5	Doctoral degree	\$48,467	-	
25-1021	Computer Science Teachers Ps	50	60	10	20.0%	<5	<5	<5	Doctoral degree	\$48,807	-	
25-1022	Mathematical Science Teachers Ps	70	90	20	28.6%	<5	<5	<5	Doctoral degree	\$41,143	-	
25-1031	Architecture Teachers/Postsec	*	*	*	*	<5	<5	<5	Doctoral degree	*	* -	*
25-1032	Engineering Teachers/Postsec	*	*	*	*	<5	<5	<5	Doctoral degree	*	* -	*
25-1041	Ag Sciences Teachers/Postsec	*	*	*	*	<5	<5	<5	Doctoral degree	*	* -	*
25-1042	Biological Science Teachers Ps	60	80	20	33.3%	<5	<5	<5	Doctoral degree	\$43,737	-	
25-1043	Forestry/Cons Sci Teachers Ps	*	*	*	*	<5	<5	<5	Doctoral degree	*	* -	*
25-1051	Atmos/Erth/Marin/Space Sci Tch Ps	*	*	*	*	<5	<5	<5	Doctoral degree	*	* -	*
25-1052	Chemistry Teachers/Postsec	20	30	10	50.0%	<5	<5	<5	Doctoral degree	\$49,971	-	

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25-1053	Occupational Title Environmental Sci TeachersPs	2002	2012	*	reiceiii *	<5	<5		<u> </u>	wage *	hourly wage range
25-1054	Physics Teachers/Postsec	*	*	*	*	<5 <5	<5 <5	<5 <5	Doctoral degree Doctoral degree	*	* _ *
25-1061	Anthropology/Archeology Tchrs Ps	*	*	*	*	<5	<5	<5	Doctoral degree	*	* _ *
25-1062	Area/Ethnic/Cultur Studies Tchrs Ps	*	*	*	*	<5	<5	<5	Doctoral degree	*	* - *
25-1063	Economics Teachers/Postsec	*	*	*	*	<5	<5	<5	Doctoral degree	*	* <u>-</u> *
25-1064	Geography Teachers/Postsec	10	10	0	0.0%	<5	<5	<5	Doctoral degree	\$45,868	
25-1065	Political Science Teachers/Postsec	*	*	*	*	<5	<5	<5	Doctoral degree	*	* - *
25-1066	Psychology Teachers/Postsec	40	50	10	25.0%	<5	<5	<5	Doctoral degree	\$45,266	<u>-</u>
25-1067	Sociology Teachers/Postsec	30	30	0	0.0%	<5	<5	<5	Doctoral degree	\$46,644	
25-1071	Health Specialties Teachers Ps	*	*	*	*	10	10	20	Master's degree	*	* - *
25-1072	Nursing Instructors/Teachers Ps	*	*	*	*	<5	<5	<5	Doctoral degree	*	* - *
25-1081	Ed Teachers/Postsec	100	130	30	30.0%	<5	<5	<5	Doctoral degree	\$41,862	-
25-1082	Library Science Teachers/Postsec	*	*	*	*	<5	<5	<5	Doctoral degree	*	* - *
25-1111	Crim Jus/Law Enforce Tchrs Ps	*	*	*	*	<5	<5	<5	Doctoral degree	*	* - *
25-1112	Law Teachers/Postsec	*	*	*	*	<5	<5	<5	Doctoral degree	*	* - *
25-1113	Social Work Teachers/Postsec	*	*	*	*	<5	<5	<5	Doctoral degree	*	* - *
25-1121	Art/Drama/Music Teachers/Postsec	120	170	50	41.7%	<5	<5	<5	Master's degree	\$34,351	-
25-1122	Communications Teachers Ps	60	80	20	33.3%	<5	<5	<5	Doctoral degree	\$44,754	-
25-1123	English Language/Lit Teachers/Ps	80	110	30	37.5%	<5	<5	<5	Doctoral degree	\$39,933	-
25-1124	Foreign Language/Lit Teachers/Ps	40	50	10	25.0%	<5	<5	<5	Doctoral degree	\$40,220	-
25-1125	History Teachers/Postsec	30	40	10	33.3%	<5	<5	<5	Doctoral degree	\$40,742	-
25-1126	Philosophy/Religion Teachers/Ps	30	40	10	33.3%	<5	<5	<5	Doctoral degree	\$39,974	-
25-1191	Graduate Teaching Assts	*	*	*	*	10	<5	10	Bachelor's degree	*	* - *
25-1192	Home Economics Teachers/Postsec	*	*	*	*	<5	<5	<5	Doctoral degree	*	* - *
25-1193	Rec/Fitness Studies Teachers/Ps	20	20	0	0.0%	<5	<5	<5	Master's degree	\$39,092	-
25-1194	Vocational Ed Teachers/Postsec	*	*	*	*	10	10	20	Work exp. in a related occupation	*	* - *
25-1199	Postsec Teachers/All Other	*	*	*	*	10	10	20	Doctoral degree	*	* - *
25-2011	Preschool Teachers/Ex Special Ed	970	1,240	270	27.8%	30	10	40	Bachelor's degree	\$19,183	\$7.79 - \$10.31
25-2012	Kindergarten Tchrs Ex Special Ed	300	370	70	23.3%	10	<5	10	Bachelor's degree	\$37,686	-
25-2021	Elemen Schl Tchrs Ex Special Ed	2,200	2,430	230	10.5%	20	50	70	Bachelor's degree	\$41,711	-
25-2022	Middle School Tchrs/Ex Sp./Voc Ed	1,290	1,360	70	5.4%	10	30	40	Bachelor's degree	\$41,022	-

		Estimate 6	employment	t Cha	inge	, , , , , , , , , , , , , , , , , , ,	Annual ave	rage			
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SOC Code	Occupational Title	2002	2012	Numeric	Percent	New Jobs	Replace- ments	Total Openings	Typical education or training path	average	Middle 50 percent
25-2023	Occupational Title Vocational Ed Tchrs/Middle School	30	40	10	33.3%	<5	<5		Bachelor's degree	wage \$46,774	hourly wage range
25-2031	Secondary Schl Tchrs Ex Sp/Voc Ed	1,790	2,040	250	14.0%	30	50		Bachelor's degree	\$40,861	-
25-2032	Voc Ed Teachers/Secondary Schl	180	190	10	5.6%	<5	10		Bachelor's degree	\$43,905	-
25-2041	Sp Ed Tchrs/Presch/Kind/Elem Schl	300	370	70	23.3%	10	10	20	Bachelor's degree	\$44,615	-
25-2042	Special Ed Teachers/Middle School	140	180	40	28.6%	<5	<5	<5	Bachelor's degree	\$41,828	-
25-2043	Special Ed Teachers/Sec School	180	230	50	27.8%	10	<5	10	Bachelor's degree	\$42,166	-
25-3011	Adult Liter/Rem Ed/GED Tchrs/Inst	80	90	10	12.5%	<5	<5	<5	Bachelor's degree	\$40,644	\$13.39 - \$24.50
25-3021	Self-Enrichment Ed Teachers	370	490	120	32.4%	10	10	20	Work exp. in a related occupation	\$27,763	\$9.53 - \$16.74
25-3999 ⁽⁷⁾	Tchrs/Prim/Sec/Adult/All Other	670	920	250	37.3%	30	10	40	Bachelor's degree	\$27,220	-
25-4010	Archivists/Curators/Museum Techs	40	40	0	0.0%	<5	<5		Master's degree	\$29,418	\$10.09 - \$18.31
25-4021	Librarians	310	320	10	3.2%	<5	10		Master's degree	\$44,800	\$17.69 - \$25.71
25-4031	Library Techs	260	280	20	7.7%	<5	10	10	Short-term on-the-job training	\$23,034	\$7.95 - \$13.57
25-9011	Audio-Visual Collections Specialists	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	* - *
25-9021	Farm/Home Management Advisors	*	*	*	*	<5	<5	<5	Bachelor's degree	*	* - *
25-9031	Instructional Coordinators	120	140	20	16.7%	<5	<5	<5	Master's degree	\$47,038	\$12.79 - \$32.08
25-9041	Teacher Assts	2,020	2,360	340	16.8%	30	40	70	Associate degree	\$20,196	-
25-9199 ⁽⁷⁾	Libr/Mus/Trng/Other Ed Wrkrs/AO	*	*	*	*	<5	<5	<5	Bachelor's degree	*	* - *
27-0000	Arts/Design/Entertainment/Sports/Media	3,660	4,080	420	11.5%	40	70	110		\$36,043	\$9.72 - \$20.08
27-1011	Art Directors	20	20	0	0.0%	<5	<5	<5	Bachelor's degree or more, plus work exp.	\$49,890	\$21.55 - \$27.98
27-1013	Fine Artists/Incl Pntrs/Sculptrs/Illstrs	30	30	0	0.0%	<5	<5	<5	Long-term on-the-job training	\$42,321	\$11.32 - \$26.68
27-1014	Multi-Media Artists/Animators	30	40	10	33.3%	<5	<5	<5	Bachelor's degree	\$42,239	\$12.69 - \$24.06
27-1021	Commercial/Industrial Designers	130	150	20	15.4%	<5	<5	<5	Bachelor's degree	\$38,946	\$15.32 - \$21.06
27-1022	Fashion Designers	*	*	*	*	<5	<5	<5	Bachelor's degree	*	* - *
27-1023	Floral Designers	250	280	30	12.0%	<5	<5	<5	Moderate-term on-the-job training	\$17,978	\$6.73 - \$10.18
27-1024	Graphic Designers	340	400	60	17.6%	10	10	20	Bachelor's degree	\$34,279	\$11.76 - \$20.32
27-1025	Interior Designers	110	130	20	18.2%	<5	<5	<5	Bachelor's degree	\$33,901	\$10.06 - \$19.77
27-1026	Merch Display/Window Trimmers	90	110	20	22.2%	<5	<5	<5	Moderate-term on-the-job training	\$24,921	\$9.06 - \$13.56
27-1027	Set/Exhibit Designers	10	10	0	0.0%	<5	<5	<5	Bachelor's degree	\$30,716	\$10.85 - \$19.79
27-1099 ⁽⁷⁾	Art & Design Wrkrs, All Other	60	60	0	0.0%	<5	<5	<5	Bachelor's degree	\$34,219	\$11.17 - \$20.64
27-2011	Actors	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	* - *
27-2012	Producers/Directors	90	90	0	0.0%	<5	<5	<5	Bachelor's degree or more, plus work exp.	\$39,665	-

		Estimate e	employment	Cha	ange		Annual ave	erage				
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	Occupational Title	2002	2012	Numeric	Percent	Jobs	ments		Typical education or training path	wage	hourly wag	je range
27-2021	Athletes/Sports Competitors		*	*	4.4.70/	<5	<5		Long-term on-the-job training	то 4 ооо	~ -	
27-2022	Coaches/Scouts	340	390	50	14.7%	10	10	20	Long-term on-the-job training	\$24,333	-	
27-2023	Umpires/Refs/Other Sports Officials	*		*		<5	<5	<5	Long-term on-the-job training	_	*	
27-2031	Dancers	*	*	*		<5	<5	<5	Long-term on-the-job training		-	
27-2032	Choreographers	40	40	0	0.0%	<5	<5	<5	Work exp. in a related occupation	\$29,263	\$9.16 -	\$18.64
27-2041	Music Directors/Composers	*	*	*	*	<5	<5	<5	Bachelor's degree or more, plus work exp.	*	* -	*
27-2042	Musicians/Singers	250	290	40	16.0%	<5	10	10	Long-term on-the-job training	\$53,092	-	
27-2099	Entnrs/Perfrmrs/Sports/Rel Wrk/AO	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	* -	*
27-3010	Announcers	230	180	-50	-21.7%	<5	10	10	Long-term on-the-job training	\$21,296	\$7.51 -	\$11.78
27-3020	News Analysts/Reprtrs/Correspond	140	140	0	0.0%	<5	<5	<5	Bachelor's degree or more, plus work exp.	\$30,822	\$9.35 -	\$16.04
27-3031	Public Relations Specialists	390	490	100	25.6%	10	10	20	Bachelor's degree	\$36,853	\$12.00 -	\$21.65
27-3041	Editors	170	170	0	0.0%	<5	<5	<5	Bachelor's degree	\$35,858	\$12.40 -	\$22.42
27-3042	Technical Writers	80	90	10	12.5%	<5	<5	<5	Bachelor's degree	\$53,173	\$17.53 -	\$22.93
27-3043	Writers/Authors	70	70	0	0.0%	<5	<5	<5	Bachelor's degree	\$31,734	\$12.00 -	\$16.98
27-3091	Interpreters/Translators	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	* -	*
27-3099	Media/Communication Wrkrs/AO	50	60	10	20.0%	<5	<5	<5	Long-term on-the-job training	\$38,565	\$13.02 -	\$23.02
27-4011	Audio/Video Equipment Techs	50	60	10	20.0%	<5	<5	<5	Long-term on-the-job training	\$38,757	\$14.51 -	\$23.13
27-4012	Broadcast Techs	70	70	0	0.0%	<5	<5	<5	Postsecondary vocational training	\$23,564	\$9.00 -	\$12.49
27-4014	Sound Engineering Techs	*	*	*	*	<5	<5	<5	Postsecondary vocational training	*	* -	*
27-4021	Photographers	140	160	20	14.3%	<5	<5	<5	Bachelor's degree	\$27,954	\$9.08 -	\$16.32
27-4031	Camera Oprs/TV/Video/Motion Pict	40	40	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	\$20,945	\$7.63 -	\$11.80
27-4032	Film/Video Editors	10	20	10	100.0%	<5	<5	<5	Bachelor's degree	\$21,689	\$8.32 -	\$10.73
27-4099	Media/Comm Equipmnt Wrkrs/AO	20	20	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	\$26,521	\$11.89 -	\$13.48
29-0000	Healthcare Practitioners & Technol Occs	13,340	17,310	3,970	29.8%	400	250	650		\$53,124	\$16.18 -	\$27.06
29-1011	Chiropractors	100	140	40	40.0%	<5	<5	<5	First professional degree	\$70,127	\$25.74 -	\$34.89
29-1020	Dentists	310	340	30	9.7%	<5	10	10	First professional degree	\$157,311	\$52.11 -	
29-1031	Dietitians/Nutritionists	100	120	20	20.0%	<5	<5	<5	Bachelor's degree	\$41,348	\$16.78 -	\$23.72
29-1041	Optometrists	40	50	10	25.0%	<5	<5	<5	First professional degree	\$69,373	\$16.91 -	\$42.22
29-1051	Pharmacists	390	500	110	28.2%	10	10	20	First professional degree	\$89,883	\$38.06 -	\$45.90
29-1061	Anesthesiologists	40	50	10	25.0%	<5	<5	<5	First professional degree	\$131,048	\$54.70 -	\$68.80
29-1062	Family/General Practitioners	210	270	60	28.6%	10	<5	10	First professional degree	\$140,665	\$53.05 -	
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		Estimate e	employment	: Cha	ange	,	Annual ave	erage			
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SOC Code	Occupational Title	2002	2012	Numeric	Percent	New Jobs	Replace- ments	Total Openings	Typical education or training path	average wage	Middle 50 percent hourly wage range
29-1063	Internists, General	250	330	80	32.0%	10	<5			\$185,820	
29-1064	Obstetricians/Gynecologists	20	30	10	50.0%	<5	<5	<5	First professional degree	\$203,155	-
29-1065	Pediatricians, General	*	*	*	*	<5	<5	<5	First professional degree	*	* - *
29-1066	Psychiatrists	30	40	10	33.3%	<5	<5	<5	First professional degree	\$131,322	\$25.78 -
29-1067	Surgeons	110	140	30	27.3%	<5	<5	<5	First professional degree	\$199,413	-
29-1069	Physicians/Surgeons, All Other	190	230	40	21.1%	10	<5	10	First professional degree	\$208,402	-
29-1071	Physician Assistants	120	180	60	50.0%	10	<5	10	Bachelor's degree	\$73,296	\$25.67 - \$42.41
29-1081	Podiatrists	*	*	*	*	<5	<5	<5	First professional degree	*	* - *
29-1111	Registered Nurses	4,800	6,280	1,480	30.8%	150	100	250	Bachelor's or Associate degree ⁽⁹⁾	\$47,960	\$19.54 - \$26.25
29-1121	Audiologists	30	30	0	0.0%	<5	<5	<5	Master's degree	\$43,860	\$17.44 - \$24.58
29-1122	Occupational Therapists	280	390	110	39.3%	10	<5	10	Bachelor's degree	\$50,135	\$21.07 - \$27.43
29-1123	Physical Therapists	340	470	130	38.2%	10	<5	10	Master's degree	\$57,790	\$24.56 - \$31.49
29-1124	Radiation Therapists	*	*	*	*	<5	<5	<5	Associate degree	*	* _ *
29-1125	Recreational Therapists	80	90	10	12.5%	<5	<5	<5	Bachelor's degree	\$33,094	\$10.98 - \$20.62
29-1126	Respiratory Therapists	150	210	60	40.0%	10	10	20	Associate degree	\$39,301	\$16.40 - \$21.46
29-1127	Speech-Language Pathologists	200	260	60	30.0%	10	10	20	Master's degree	\$47,868	\$18.71 - \$26.89
29-1131	Veterinarians	180	230	50	27.8%	10	<5	10	First professional degree	\$68,670	\$29.10 - \$35.28
29-1199	HIth Diagnsng/Treatng Practtnrs/AO	60	80	20	33.3%	<5	<5	<5	First professional degree	\$69,545	\$23.18 - \$47.55
29-2011	Medical/Clinical Lab Technologists	300	370	70	23.3%	10	10	20	Bachelor's degree	\$42,657	\$16.98 - \$23.50
29-2012	Medical/Clinical Lab Techs	200	250	50	25.0%	10	10	20	Associate degree	\$31,075	\$12.28 - \$17.29
29-2021	Dental Hygienists	440	630	190	43.2%	20	<5	20	Associate degree	\$51,326	\$23.42 - \$26.66
29-2031	Cardiovascular Technlgst/Techncns	60	90	30	50.0%	<5	<5	<5	Associate degree	\$29,699	\$10.69 - \$16.29
29-2032	Diagnostic Medical Sonographers	80	100	20	25.0%	<5	<5	<5	Associate degree	\$52,198	\$19.97 - \$30.14
29-2033	Nuclear Medicine Technologists	40	50	10	25.0%	<5	<5	<5	Associate degree	\$49,986	\$20.47 - \$26.66
29-2034	Radiologic Technologists/Techs	390	490	100	25.6%	10	10	20	Associate degree	\$38,152	\$15.53 - \$20.95
29-2041	Emergency Med Techs/Paramedics	620	790	170	27.4%	20	10	30	Postsecondary vocational training	\$20,882	\$6.61 - \$12.52
29-2051	Dietetic Techs	40	50	10	25.0%	<5	<5	<5	Moderate-term on-the-job training	\$27,050	\$11.26 - \$14.88
29-2052	Pharmacy Techs	380	500	120	31.6%	10	10	20	Moderate-term on-the-job training	\$22,387	\$9.01 - \$12.18
29-2053	Psychiatric Techs	*	*	*	*	<5	<5	<5	Postsecondary vocational training	*	* - *
29-2054	Respiratory Therapy Techs	70	110	40	57.1%	<5	<5	<5	Postsecondary vocational training	\$40,215	\$15.35 - \$21.82
29-2055	Surgical Technologists	180	240	60	33.3%	10	<5	10	Postsecondary vocational training	\$35,745	\$14.16 - \$19.87

		1	employment		ange		Annual ave		Ient Area 2002-2012		
		LStilllate	mployment	Cita	inge	New	Replace-	Total		Annual average	Middle 50 percent
SOC Code	Occupational Title	2002	2012	Numeric	Percent	Jobs	ments	Openings	Typical education or training path	wage	hourly wage range
29-2056	Veterinary Technologists/Techs	160	230	70	43.8%	10	<5	10	Associate degree	\$22,441	\$9.24 - \$12.72
29-2061	Licensed Pract/Vocational Nurses	1,250	1,470	220	17.6%	20	30	50	Postsecondary vocational training	\$31,845	\$13.82 - \$16.93
29-2071	Medical Records/Health Info Techs	380	590	210	55.3%	20	10	30	Associate degree	\$24,535	\$9.52 - \$13.39
29-2081	Opticians/Dispensing	220	270	50	22.7%	10	<5	10	Long-term on-the-job training	\$26,195	\$9.60 - \$13.37
29-2091	Orthotists/Prosthetists	20	30	10	50.0%	<5	<5	<5	Bachelor's degree	\$58,312	\$23.45 - \$33.11
29-9010	Occ Health/Safety Spec/Techs	80	90	10	12.5%	<5	<5	<5	Bachelor's degree	\$48,392	\$17.40 - \$29.31
29-9091	Athletic Trainers	*	*	*	*	<5	<5	<5	Bachelor's degree	*	* - *
29-9199 ⁽⁷⁾	Health Prof/Tech, All Other	240	300	60	25.0%	10	<5	10	Associate degree	\$36,404	\$12.61 - \$20.84
31-0000	Healthcare Support Occs	8,320	10,920	2,600	31.3%	260	130	390		\$23,083	\$9.44 - \$12.61
31-1011	Home Health Aides	860	1,280	420	48.8%	40	10	50	Short-term on-the-job training	\$19,878	\$8.34 - \$10.61
31-1012	Nursing Aides/Orderlies/Attendants	4,430	5,430	1,000	22.6%	100	60	160	Short-term on-the-job training	\$21,959	\$9.38 - \$11.72
31-1013	Psychiatric Aides	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	* - *
31-2011	Occupational Therapist Assts	70	90	20	28.6%	<5	<5	<5	Associate degree	\$35,905	\$15.13 - \$19.33
31-2012	Occupational Therapist Aides	20	30	10	50.0%	<5	<5	<5	Short-term on-the-job training	\$24,099	\$10.49 - \$12.92
31-2021	Physical Therapist Assts	150	210	60	40.0%	10	<5	10	Associate degree	\$35,597	\$14.95 - \$19.96
31-2022	Physical Therapist Aides	100	150	50	50.0%	10	<5	10	Short-term on-the-job training	\$21,646	\$9.44 - \$11.35
31-9011	Massage Therapists	100	130	30	30.0%	<5	<5	<5	Postsecondary vocational training	\$34,371	\$11.29 - \$23.48
31-9091	Dental Assts	690	980	290	42.0%	30	20	50	Moderate-term on-the-job training	\$25,919	\$11.10 - \$13.68
31-9092	Medical Assts	640	1,020	380	59.4%	40	10	50	Moderate-term on-the-job training	\$24,409	\$10.50 - \$13.07
31-9093	Medical Equipment Preparers	50	70	20	40.0%	<5	<5	<5	Short-term on-the-job training	\$24,556	\$10.29 - \$13.33
31-9094	Medical Transcriptionists	400	500	100	25.0%	10	10	20	Postsecondary vocational training	\$28,420	\$12.15 - \$15.58
31-9095	Pharmacy Aides	170	200	30	17.6%	<5	<5	<5	Short-term on-the-job training	\$19,609	\$8.01 - \$10.72
31-9096	Vet Assts/Lab Animal Caretakers	110	140	30	27.3%	<5	<5	<5	Short-term on-the-job training	\$19,506	\$7.98 - \$10.39
31-9099	Healthcare Support Wrkrs/All Other	470	600	130	27.7%	10	10	20	Short-term on-the-job training	\$22,650	\$9.21 - \$12.41
33-0000	Protective Service Occs	5,130	5,860	730	14.2%	70	150	220		\$32,623	\$10.27 - \$20.34
33-1011	First-Line Sup/Mgr of Corr Offcrs	40	50	10	25.0%	<5	<5	<5	Work exp. in a related occupation	\$48,143	\$19.12 - \$26.43
33-1012	First-Line Sup/Mgr of Police/Detect	160	180	20	12.5%	<5	10	10	Work exp. in a related occupation	\$50,768	\$20.64 - \$29.02
33-1021	F-L Sup/Mgr Fire Fght/Prevent Wrk	150	170	20	13.3%	<5	10	10	Work exp. in a related occupation	\$53,001	\$22.18 - \$30.92
33-1099	F-L Sups/Mgrs/Protect Srvc Wrkrs/AO	70	80	10	14.3%	<5	<5	<5	Work exp. in a related occupation	\$49,914	\$18.91 - \$29.28
33-2011	Fire Fighters	880	1,020	140	15.9%	10	30	40	Long-term on-the-job training	\$31,664	\$10.99 - \$19.77
33-2020 ⁽⁸⁾	Fire Inspectors	30	40	10	33.3%	<5	<5	<5			-

		Estimate e	employment	Cha	inge	Α	Annual ave	rage				
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				l		New	Replace-	Total		average	Middle 50 pe	
8	Occupational Title	2002	2012	Numeric (8)		Jobs (8)	ments		Typical education or training path	wage	hourly wage	range
33-2021 ⁽⁸⁾	Fire Inspect/Invest	(8)							Work exp. in a related occupation	*	* -	*
33-2022 ⁽⁸⁾	Forest Fire Inspect/Prevent Spec	(8)	(8)	(8)	(6)	(8)	(8)	(8)	Work exp. in a related occupation	*	* -	*
33-3011	Bailiffs	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	* -	*
33-3012	Correctional Officers/Jailers	520	580	60	11.5%	10	10	20	Moderate-term on-the-job training	\$33,454	\$14.48 - \$	\$17.82
33-3021	Detectives/Criminal Investigators	180	200	20	11.1%	<5	10	10	Work exp. in a related occupation	\$48,130	\$19.32 - \$	\$26.30
33-3031	Fish/Game Wardens	10	10	0	0.0%	<5	<5	<5	Long-term on-the-job training	\$34,731	\$13.40 - \$	\$19.74
33-3041	Parking Enforcement Wrkrs	30	40	10	33.3%	<5	<5	<5	Short-term on-the-job training	\$28,821	\$10.93 - \$	\$16.49
33-3051	Police/Sheriff's Patrol Officers	1,380	1,630	250	18.1%	30	40	70	Long-term on-the-job training	\$41,900	\$18.03 - \$	\$22.64
33-9011	Animal Control Wrkrs	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	* -	*
33-9021	Private Detectives/Investigators	40	40	0	0.0%	<5	<5	<5	Work exp. in a related occupation	\$33,675	\$9.02 - \$	\$18.97
33-9031	Gaming Surveillance/Investogators	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	* -	*
33-9032	Security Guards	950	1,090	140	14.7%	10	20	30	Short-term on-the-job training	\$20,122	\$7.78 - \$	\$10.82
33-9091	Crossing Guards	240	270	30	12.5%	<5	10	10	Short-term on-the-job training	\$25,648	\$7.65 - \$	\$18.92
33-9099	Protective Service Wrkrs/All Other	360	390	30	8.3%	<5	30	30	Short-term on-the-job training	\$20,573	\$7.38 - \$	\$11.80
35-0000	Food Preparation & Serving Occs	25,090	28,110	3,020	12.0%	300	1,000	1,300		\$17,005	\$6.34 -	\$9.25
35-1011	Chefs/Head Cooks	380	430	50	13.2%	10	10	20	Postsecondary vocational training	\$27,578	\$10.33 - \$	\$15.83
35-1012	F-L Sups/Mgrs Food Prep/Srv Wrkrs	1,400	1,570	170	12.1%	20	30	50	Work exp. in a related occupation	\$26,111	\$8.77 - \$	\$14.82
35-2011	Cooks/Fast Food	1,260	1,300	40	3.2%	<5	40	40	Short-term on-the-job training	\$15,134	\$6.33 -	\$8.17
35-2012	Cooks/Institution/Cafeteria	840	830	-10	-1.2%	<5	30	30	Long-term on-the-job training	\$20,463	\$8.19 - \$	\$11.43
35-2013	Cooks/Private Household	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	* -	*
35-2014	Cooks/Restaurant	1,440	1,630	190	13.2%	20	50	70	Long-term on-the-job training	\$19,733	\$7.50 - \$	\$10.67
35-2015	Cooks/Short Order	850	920	70	8.2%	10	30	40	Short-term on-the-job training	\$17,133	\$6.72 -	\$9.56
35-2021	Food Prep Wrkrs	1,690	1,980	290	17.2%	30	60	90	Short-term on-the-job training	\$17,115	\$6.93 -	\$9.36
35-3011	Bartenders	2,750	2,910	160	5.8%	20	110	130	Short-term on-the-job training	\$17,378	\$7.01 -	\$9.13
35-3021	Comb Food Prep/Serv Wrk/Incl Fast	4,710	5,640	930	19.7%	90	200	290	Short-term on-the-job training	\$15,848	\$6.22 -	\$8.76
35-3022	Cntr Atts/Cafeter/Fd Conc/Coff Shop	740	830	90	12.2%	10	50	60	Short-term on-the-job training	\$16,458	\$6.62 -	\$9.33
35-3031	Waiters/Waitresses	5,340	6,080	740	13.9%	70	280	350	Short-term on-the-job training	\$14,847	\$5.95 -	\$7.67
35-3041	Food Servers/Nonrestaurant	400	440	40	10.0%	<5	10	10	Short-term on-the-job training	\$16,681	\$6.73 -	\$8.97
35-9011	Dining Rm/Cafeter Atts/Bar Helpers	960	1,050	90	9.4%	10	30	40	Short-term on-the-job training	\$15,462	\$6.09 -	\$8.26
35-9021	Dishwashers	1,490	1,570	80	5.4%	10	50	60	Short-term on-the-job training	\$15,044	\$6.09 -	\$8.17
35-9031	Hosts Rest/Lounge/Coff Shop	600	680	80	13.3%	10	20	30	Short-term on-the-job training	\$17,077	\$6.49 -	\$9.95
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		Estimate 4	employment	Cha	nge		Annual ave	rage				
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					_	New	Replace-	Total		average	Middle 50	percent
	Occupational Title	2002	2012			Jobs	ments		Typical education or training path	wage	hourly wag	
35-9099	Food Prep/Serving Rel Wrkrs/AO	240	260	20	8.3%	<5	10		Short-term on-the-job training	\$18,510	\$7.74 -	\$9.93
37-0000	Build & Grounds Cleaning/Maint Occs	10,410	11,920	1,510	14.5%	150	210	360		\$21,044	\$7.74 -	\$11.63
37-1011	F-L Sups/Mgrs Hskpng/Janitrl Wrkrs	450	520	70	15.6%	10	10	20	Work exp. in a related occupation	\$29,738	\$10.57 -	
37-1012	F-L Sup/Mgr Land/Lawn/Grnds Wrk	160	180	20	12.5%	<5	<5	<5	Work exp. in a related occupation	\$31,465	\$10.68 -	\$17.78
37-2011	Janitors/Cleanrs Ex Maids/Hskpng	4,990	5,660	670	13.4%	70	100	170	Short-term on-the-job training	\$20,479	\$7.63 -	\$11.32
37-2012	Maids/Housekpng Cleaners	3,060	3,470	410	13.4%	40	60	100	Short-term on-the-job training	\$17,971	\$7.46 -	\$9.75
37-2021	Pest Control Wrkrs	30	40	10	33.3%	<5	<5	<5	Moderate-term on-the-job training	\$20,904	\$7.60 -	\$12.38
37-3011	Landscaping/Grndskpng Wrkrs	1,550	1,860	310	20.0%	30	30	60	Short-term on-the-job training	\$22,476	\$8.01 -	\$12.88
37-3012	Pesticide Hndlrs/Sprayrs/Apps Veg	40	40	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	\$24,231	\$9.70 -	\$13.34
37-3013	Tree Trimmers/Pruners	30	40	10	33.3%	<5	<5	<5	Short-term on-the-job training	\$25,361	\$11.50 -	\$13.00
37-9099 ⁽⁷⁾	Bldg/Grnds Cleanng/Maint Wrkrs AO	90	110	20	22.2%	<5	<5	<5	Short-term on-the-job training	\$25,750	\$8.31 -	\$16.06
39-0000	Personal Care and Service Occs	6,400	7,860	1,460	22.8%	150	150	300		\$20,283	\$7.29 -	\$11.06
39-1011	F-L Sups/Mgrs of Gaming Wrkrs	70	70	0	0.0%	<5	<5	<5	Work exp. in a related occupation	\$38,494	\$16.21 -	\$21.42
39-1012	Slot Key Persons	*	*	*	*	<5	<5	<5	Postsecondary vocational training	*	* -	*
39-1021	F-L Sups/Mgrs of Persnl Serv Wrkrs	190	240	50	26.3%	10	10	20	Work exp. in a related occupation	\$32,965	\$10.96 -	\$17.39
39-2011	Animal Trainers	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	* -	*
39-2021	Nonfarm Animal Caretakers	180	230	50	27.8%	10	<5	10	Short-term on-the-job training	\$15,783	\$6.58 -	\$8.41
39-3011	Gaming Dealers	*	*	*	*	<5	10	10	Postsecondary vocational training	*	* -	*
39-3012	Gaming/Sports BookRunners	*	*	*	*	<5	<5	<5	Postsecondary vocational training	*	* -	*
39-3021	Motion Picture Projectionists	10	10	0	0.0%	<5	<5	<5	Short-term on-the-job training	\$16,454	\$7.51 -	\$8.52
39-3031	Ushers/Lobby Attend/Ticket Takers	110	110	0	0.0%	<5	10	10	Short-term on-the-job training	\$14,194	\$6.12 -	\$7.66
39-3091	Amusement/Recreation Attendants	530	600	70	13.2%	10	20	30	Short-term on-the-job training	\$16,691	\$6.49 -	\$8.39
39-3092	Costume Attendants	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	* -	*
39-3093	Lockr Rm/Coatrm/Dress Rm Attend	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	* -	*
39-3199 ⁽⁷⁾	Gaming Wkrs, AO	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	* -	*
39-4011	Embalmers	*	*	*	*	<5	<5	<5	Postsecondary vocational training	*	* -	*
39-4021	Funeral Attendants	50	70	20	40.0%	<5	<5	<5	Short-term on-the-job training	\$19,700	\$7.87 -	\$10.49
39-5011	Barbers	20	30	10	50.0%	<5	<5	<5	Postsecondary vocational training	\$21,318	\$6.60 -	\$14.61
39-5012	Hairdress/Hairstyl/Cosmetologists	1,000	1,230	230	23.0%	20	20	40	Postsecondary vocational training	\$22,188	\$8.19 -	\$12.83
39-5092	Manicurists/Pedicurists	40	50	10	25.0%	<5	<5	<5	Postsecondary vocational training	\$26,756	\$8.28 -	\$16.32
39-5093	Shampooers	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	* -	*

		Estimate e	employment	Cha	nge	ŀ	Annual ave	rage				
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COC C- 4-	Constitution of Title	2002	2012	Numeric	Percent	New Jobs	Replace- ments	Total	Trustical advantation on topicing weath	average	Middle 50 perce	
39-5094	Occupational Title Skin Care Specialists	*	*	*	*	<5	<5		Typical education or training path Postsecondary vocational training	wage *	hourly wage rar	nge *
39-6011	Baggage Porters and Bellhops	60	70	10	16.7%	<5	<5		Short-term on-the-job training	\$19,399	\$6.55 - \$10	0 93
39-6012	Concierges	*	*	*	*	<5	<5		Moderate-term on-the-job training	*	* -	*
39-6021	Tour Guides and Escorts	60	60	0	0.0%	<5	<5		Moderate-term on-the-job training	\$13,879	\$5.84 - \$6	6.97
39-6022	Travel Guides	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	* -	*
39-6031	Flight Attendants	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	* -	*
39-6032	Trans Atts/Ex Flight Atts/Bag Porters	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	* -	*
39-9011	Child Care Wrkrs	1,110	1,340	230	20.7%	20	30	50	Short-term on-the-job training	\$17,064	\$7.06 - \$9	9.06
39-9021	Personal and Home Care Aides	1,150	1,630	480	41.7%	50	20	70	Short-term on-the-job training	\$17,761	\$7.51 - \$9	9.77
39-9031	Fitness Trainers/Aerobics Instruct	*	*	*	*	10	10	20	Postsecondary vocational training	*	* -	*
39-9032	Recreation Wrkrs	740	830	90	12.2%	10	20	30	Bachelor's degree	\$21,309	\$7.20 - \$11	1.98
39-9041	Residential Advisors	70	90	20	28.6%	<5	<5	<5	Moderate-term on-the-job training	\$21,669	\$8.79 - \$12	2.25
39-9099	Personal Care/Service Wrkrs/AO	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	* -	*
41-0000	Sales and Related Occs	27,270	30,780	3,510	12.9%	350	940	1,290		\$28,469	\$7.51 - \$15	5.86
41-1011	F-L Sups/Mgrs of Rtl Sls Wrkrs	2,260	2,630	370	16.4%	40	40	80	Work exp. in a related occupation	\$35,962	\$12.36 - \$19	9.68
41-1012	F-L Sups/Mgrs of nonRtl Sls Wrkrs	490	590	100	20.4%	10	10	20	Work exp. in a related occupation	\$68,449	\$20.45 - \$40).04
41-2011	Cashiers	7,460	8,220	760	10.2%	80	360	440	Short-term on-the-job training	\$16,380	\$6.65 - \$8	8.82
41-2012	Gaming Change/Booth Cashiers	*	*	*	*	<5	10	10	Short-term on-the-job training	*	* -	*
41-2021	Counter and Rental Clerks	640	790	150	23.4%	20	20	40	Short-term on-the-job training	\$18,771	\$6.91 - \$9	9.77
41-2022	Parts Salespersons	510	500	-10	-2.0%	<5	20	20	Moderate-term on-the-job training	\$26,070	\$9.01 - \$15	5.68
41-2031	Retail Salespersons	8,470	9,620	1,150	13.6%	120	310	430	Short-term on-the-job training	\$21,097	\$7.41 - \$11	1.08
41-3011	Advertising Sales Agents	310	320	10	3.2%	<5	10	10	Moderate-term on-the-job training	\$38,857	\$11.96 - \$22	2.44
41-3021	Insurance Sales Agents	920	1,070	150	16.3%	20	20	40	Bachelor's degree	\$55,769	\$14.31 - \$32	2.06
41-3031	Sec/Comm/Fin Serv Sales Agents	220	250	30	13.6%	<5	<5	<5	Bachelor's degree	\$55,481	\$16.10 - \$32	2.98
41-3041	Travel Agents	160	130	-30	-18.8%	<5	<5	<5	Postsecondary vocational training	\$20,833	\$7.53 - \$12	2.08
41-4011	SIs Reps/WhlsI/Mfg/Tech/Sci Prods	590	700	110	18.6%	10	20	30	Moderate-term on-the-job training	\$58,575	\$18.34 - \$34	4.48
41-4012	SIs Reps/WhlsI/Mfg/Ex Tech/Sci Prod	3,220	3,770	550	17.1%	60	90	150	Moderate-term on-the-job training	\$56,684	\$17.78 - \$32	2.70
41-9011	Demonstrators/Product Promoters	170	190	20	11.8%	<5	<5	<5	Moderate-term on-the-job training	\$28,162	\$8.38 - \$16	3.83
41-9012	Models	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	* -	*
41-9021	Real Estate Brokers	100	110	10	10.0%	<5	<5	<5	Postsecondary vocational training	\$59,259	\$17.10 - \$36	3.84
41-9022	Real Estate Sales Agents	110	130	20	18.2%	<5	<5	<5	Postsecondary vocational training	\$42,045	\$17.76 - \$24	1.54

		Estimate e	mployment	Cha	nge		Annual ave	rage				
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	Occupational Title	2002	2012	Numeric		Jobs	ments		Typical education or training path	wage	hourly wag	
41-9031	Sales Engineers	170	190	20	11.8%	<5	10		Bachelor's degree	\$69,833		
41-9041	Telemarketers	570	520	-50	-8.8%	<5	10		,	\$20,862	\$7.44 -	
41-9091	Door Sales/News/St Vndrs/Rel Wkrs	100	110	10	10.0%	<5	<5	<5	Short-term on-the-job training	\$16,164	\$5.83 -	\$6.75
41-9099	Sales/Related Wrkrs/All Other	620	780	160	25.8%	20	10	30	Moderate-term on-the-job training	\$37,502	\$10.75 -	\$22.62
43-0000	Office/Administrative Support Occupation	48,060	50,100	2,040	4.2%	200	1,110	1,310	Mod on its substant consults	\$26,784	\$9.66 -	\$15.00
43-1011	First-Line Sups/Mgrs-Offc/Admin Supp Wrkrs		3,060	110	3.7%	10	60		Work exp. in a related occupation	\$43,727		\$25.46
43-2011	Switchboard Oprs/Incl Answrng Srvc	490	470	-20	-4.1%	< 5	10	10	Short-term on-the-job training	\$21,778	\$8.95 -	\$11.52
43-2021	Telephone Oprs	*	*	*		<5	<5	<5	Short-term on-the-job training	·	^ - * _	•
43-2099	Communications Equipment Oprs/AO	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*		*
43-3011	Bill/Account Collectors	490	590	100	20.4%	10	10	20	Short-term on-the-job training	, ,	\$11.01 -	\$14.98
43-3021	Billing/Posting Clerks/Machn Oprs	1,150	1,210	60	5.2%	10	20	30	Moderate-term on-the-job training	\$25,767	\$10.13 -	\$14.14
43-3031	Bookkeep/Account/Auditing Clerks	4,380	4,500	120	2.7%	10	80	90	Moderate-term on-the-job training	\$26,306	\$9.98 -	\$14.73
43-3041	Gaming Cage Wrkrs	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	* -	*
43-3051	Payroll and Timekeeping Clerks	520	530	10	1.9%	<5	10	10	Moderate-term on-the-job training	\$28,730		\$16.22
43-3061	Procurement Clerks	190	190	0	0.0%	<5	10	10	Short-term on-the-job training	\$25,391	\$10.31 -	\$13.51
43-3071	Tellers	1,290	1,470	180	14.0%	20	60	80	Short-term on-the-job training	\$21,411	\$8.86 -	\$11.24
43-4011	Brokerage Clerks	70	70	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	\$27,550	\$10.74 -	\$14.94
43-4021	Correspondence Clerks	20	20	0	0.0%	<5	<5	<5	Short-term on-the-job training	\$26,249	\$11.11 -	\$13.77
43-4031	Court/Municipal/License Clerks	290	310	20	6.9%	<5	10	10	Short-term on-the-job training	\$18,275	\$6.40 -	\$10.73
43-4041	Credit Authorizers/Checkers/Clerks	80	70	-10	-12.5%	<5	<5	<5	Short-term on-the-job training	\$28,336	\$9.41 -	\$16.02
43-4051	Customer Service Reps	3,980	4,680	700	17.6%	70	60	130	Moderate-term on-the-job training	\$28,674	\$10.42 -	\$16.29
43-4061	Eligibility Interviewers/Gov't Progrms	150	120	-30	-20.0%	<5	<5	<5	Moderate-term on-the-job training	\$31,207	\$12.63 -	\$16.52
43-4071	File Clerks	480	460	-20	-4.2%	<5	10	10	Short-term on-the-job training	\$20,150	\$8.19 -	\$10.97
43-4081	Hotel/Motel/Resort Desk Clerks	600	720	120	20.0%	10	30	40	Short-term on-the-job training	\$17,879	\$7.55 -	\$9.78
43-4111	Interviewers/Ex Eligibility/Loan	300	400	100	33.3%	10	10	20	Short-term on-the-job training	\$24,232	\$9.94 -	\$13.30
43-4121	Library Assts/Clerical	340	400	60	17.6%	10	10	20	Short-term on-the-job training	\$20,997	\$7.55 -	\$12.05
43-4131	Loan Interviewers/Clerks	270	230	-40	-14.8%	<5	<5	<5	Short-term on-the-job training	\$24,829	\$10.33 -	\$13.40
43-4141	New Accounts Clerks	220	250	30	13.6%	<5	10	10	Work exp. in a related occupation	\$25,251	\$10.36 -	\$13.85
43-4151	Order Clerks	*	*	*	*	<5	20	20	Short-term on-the-job training	*	* -	*
43-4161	Human Res Assts/Ex Pay/Tmkpng	390	450	60	15.4%	10	10	20	Short-term on-the-job training	\$31,813	\$12.12 -	\$17.07
43-4171	Receptionists/Info Clerks	2,500	3,200	700	28.0%	70	60	130	Short-term on-the-job training	\$21,595	\$8.66 -	\$12.09

		Estimate e	employment	Cha	nge	A	Annual ave	rage				
								<u> </u>]	Annual		
SOC Code	Occupational Title	2002	2012	Numeric	Percent	New Jobs	Replace- ments	Total Openings	Typical education or training path	average	Middle 50	
43-4181	Res/Trans Ticket Agnts/Travl Clerks	100	110	10	10.0%	<5	<5		Short-term on-the-job training	wage \$28,054	hourly wag \$10.13 -	
43-4999 ⁽⁷⁾	Fin/Info/Record Clerks/All Other	330	350	20	6.1%	<5	10		Short-term on-the-job training	\$26,338		\$15.16
43-5011	Cargo/Freight Agents	170	200	30	17.6%	<5	<5		Moderate-term on-the-job training	\$33,379		\$19.68
43-5021	Couriers/Messengers	200	190	-10	-5.0%	<5	10	10	Short-term on-the-job training	\$20,977	\$8.47 -	
43-5031	Police/Fire/Ambulance Dispatchers	170	180	10	5.9%	<5	<5		Moderate-term on-the-job training	\$33,805	\$14.26 -	\$18.35
43-5032	Disp/Ex Police/Fire/Ambulance	380	440	60	15.8%	10	10		Moderate-term on-the-job training	\$34,785	·	\$20.08
43-5041	Meter Readers/Utilities	190	150	-40	-21.1%	<5	10	10	Short-term on-the-job training	\$38,345	\$16.73 -	\$21.21
43-5051	Postal Service Clerks	130	120	-10	-7.7%	<5	<5	<5	Short-term on-the-job training	\$39,306	\$18.03 -	\$20.34
43-5052	Postal Service Mail Carriers	680	680	0	0.0%	<5	20	20	Short-term on-the-job training	\$38,763	\$16.30 -	\$20.90
43-5053	PS Mail Sort/Proc/Proc Machn Oprs	450	400	-50	-11.1%	<5	10	10	Short-term on-the-job training	\$35,424	\$15.74 -	\$19.96
43-5061	Production/Plan/Expediting Clerks	830	920	90	10.8%	10	20	30	Short-term on-the-job training	\$33,890	\$13.07 -	\$18.74
43-5071	Shipping/Receiving/Traffic Clerks	1,800	1,770	-30	-1.7%	<5	40	40	Short-term on-the-job training	\$26,344	\$10.10 -	\$14.59
43-5081	Stock Clerks/Order Fillers	3,300	3,100	-200	-6.1%	<5	120	120	Short-term on-the-job training	\$21,995	\$7.84 -	\$12.55
43-5111	Weigh/Meas/Check/Sample/Rcrdkp	270	300	30	11.1%	<5	10	10	Short-term on-the-job training	\$27,157	\$10.00 -	\$16.15
43-5199 ⁽⁷⁾	Matrl Rec/Sched/Disp/Dist Wrkrs/AO	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	* -	*
43-6011	Executive Secretaries/Admin Assts	3,310	3,440	130	3.9%	10	60	70	Moderate-term on-the-job training	\$32,123	\$11.97 -	\$17.63
43-6012	Legal Secretaries	260	310	50	19.2%	10	10	20	Postsecondary vocational training	\$32,576	\$13.60 -	\$17.55
43-6013	Medical Secretaries	520	620	100	19.2%	10	10	20	Postsecondary vocational training	\$25,350	\$10.25 -	\$13.80
43-6014	Secretaries/Ex Legal/Medical/Exec	4,320	4,000	-320	-7.4%	<5	80	80	Moderate-term on-the-job training	\$24,762	\$9.73 -	\$13.84
43-9011	Computer Oprs	330	260	-70	-21.2%	<5	10	10	Moderate-term on-the-job training	\$33,132	\$11.56 -	\$19.77
43-9021	Data Entry Keyers	620	570	-50	-8.1%	<5	20	20	Moderate-term on-the-job training	\$22,524	\$9.13 -	\$12.01
43-9022	Word Processors/Typists	390	220	-170	-43.6%	<5	10	10	Moderate-term on-the-job training	\$25,009	\$10.10 -	\$13.93
43-9031	Desktop Publishers	100	120	20	20.0%	<5	<5	<5	Postsecondary vocational training	\$28,604	\$9.64 -	\$16.39
43-9041	Ins Claims/Policy Processng Clerks	920	990	70	7.6%	10	20	30	Moderate-term on-the-job training	\$26,605	\$11.20 -	\$14.32
43-9051	Mail Clerks/Mail Machn Oprs/Ex Postal Service	280	260	-20	-7.1%	<5	10	10	Short-term on-the-job training	\$21,476	\$8.78 -	\$11.18
43-9061	Office Clerks/General	5,170	5,490	320	6.2%	30	120	150	Short-term on-the-job training	\$22,501	\$8.61 -	\$12.58
43-9071	Office Machn Oprs/Ex Computer	150	140	-10	-6.7%	<5	<5	<5	Short-term on-the-job training	\$24,378	\$9.40 -	\$14.10
43-9081	Proofreaders/Copy Markers	40	30	-10	-25.0%	<5	<5	<5	Short-term on-the-job training	\$19,294	\$8.00 -	\$10.30
43-9111	Statistical Assts	20	20	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	\$29,011	\$10.47 -	\$15.76
43-9999 ⁽⁷⁾	Sec/Admn Asst/Othr Offc Sup Wrkrs/AO	540	500	-40	-7.4%	<5	10	10	Short-term on-the-job training	\$26,636	\$9.46 -	\$15.45
45-0000	Farming/Fishing/Forestry Occs	400	430	30	7.5%	<5	10	10		\$27,969	\$10.72 -	\$14.87

		Estimate 6	employment	Cha	inge	A	Annual ave	rage				
								<u> </u>	1	Annual		
		2002	2012	Numaria	Percent	New Jobs	Replace-	Total		average	Middle 50 per	
45-1011	Occupational Title	40	50	Numeric	25.0%		ments		Typical education or training path	wage \$40,661	hourly wage r	
45-1011	F-L Sups/Mgrs Farm/Fish/Forest Wkrs	40	50	10	25.0 %	<5 .5	<5 .5		Work exp. in a related occupation	φ40,001 *	φ15.01 - φ ₂ * -	24.U <i>1</i> *
	Farm Labor Contractors			0	0.09/	<5	<5 .5		Work exp. in a related occupation	\$34.650		10.52
45-2011	Agricultural Inspectors	20	20	0	0.0%	<5	<5		Work exp. in a related occupation	\$34,00U *	\$14.32 - \$ ⁷	19.52
45-2021	Animal Breeders				0.00/	<5	< 5		Moderate-term on-the-job training	#00.040	- 	40.44
45-2041	Graders/Sorters/Ag Prod	40	40	0	0.0%	< 5	<5 -	<5 -	Work exp. in a related occupation	\$23,316		13.14
45-2091	Ag Equipment Oprs	20	30	10	50.0%	<5	<5	<5	Moderate-term on-the-job training	\$24,394		13.36
45-2092	Farm/Labrers/Crop/Nursry/Greenhs	40	40	0	0.0%	<5	<5	<5	Short-term on-the-job training	\$21,946		11.66
45-2093	Farmwrkrs/Farm/Ranch Animals	70	90	20	28.6%	<5	<5	<5	Short-term on-the-job training	\$27,413		14.01
45-4011	Forest and Conservation Wrkrs	30	30	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	\$29,320		17.49
45-4021	Fallers	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	* -	*
45-4022	Logging Equipment Oprs	40	40	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	\$25,401	\$11.62 - \$ ⁴	13.03
45-4023	Log Graders/Scalers	30	30	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	\$23,208	\$9.83 - \$7	11.49
45-9099 ⁽⁷⁾	Farming/Fishing/Forestry Wrkrs/AO	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	* -	*
47-0000	Construction/Extraction Occs	15,140	18,220	3,080	20.3%	310	300	610		\$38,266	\$13.41 - \$2	22.97
47-1011	First-Line Sup/Mgr Const Trades/Extr Wkrs	1,060	1,260	200	18.9%	20	20	40	Work exp. in a related occupation	\$52,855	\$19.30 - \$2	28.52
47-2011	Boilermakers	50	60	10	20.0%	<5	<5	<5	Long-term on-the-job training	\$43,679	\$17.84 - \$2	25.82
47-2021	Brickmasons/Blockmasons	320	380	60	18.8%	10	10	20	Long-term on-the-job training	\$46,064	\$18.92 - \$2	26.24
47-2022	Stonemasons	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	* -	*
47-2031	Carpenters	3,070	3,740	670	21.8%	70	50	120	Long-term on-the-job training	\$37,420	\$12.90 - \$2	23.72
47-2041	Carpet Installers	140	170	30	21.4%	<5	<5	<5	Moderate-term on-the-job training	\$36,668	\$11.70 - \$2	23.73
47-2042	Floor Layrs/Ex Carpet/Wood/Tiles	100	110	10	10.0%	<5	<5	<5	Moderate-term on-the-job training	\$27,877	\$11.71 - \$1	15.16
47-2043	Floor Sanders/Finishers	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	* -	*
47-2044	Tile/Marble Settrs	70	90	20	28.6%	<5	<5	<5	Long-term on-the-job training	\$42,451	\$14.70 - \$2	26.26
47-2051	Cem Masons/Conc Finishrs	390	510	120	30.8%	10	10	20	Moderate-term on-the-job training	\$34,893	\$13.16 - \$ ⁴	19.89
47-2053	Terrazzo Wkrs/Finish	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	* -	*
47-2061	Construction Laborers	1,380	1,650	270	19.6%	30	20	50	Moderate-term on-the-job training	\$33,583	\$12.41 - \$ ²	19.84
47-2071	Pavng/Surfacng/Tampng Equip Oprs	*	*	*	*	<5	<5		Moderate-term on-the-job training	*	* -	*
47-2072	Pile-Driver Oprs	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	* -	*
47-2073	Opng Engnrs/Other Con Eqp Oprs	750	860	110	14.7%	10	20		Moderate-term on-the-job training	\$43,108	\$15.88 - \$2	24.76
47-2081	Drywall and Ceiling Tile Installers	290	370	80	27.6%	10	10		Moderate-term on-the-job training	\$46,021		26.90
47-2082	Tapers	100	130	30	30.0%	<5	<5		Moderate-term on-the-job training	\$35,249		21.27
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		Estimate e	mployment	t Cha	ange	,	Annual ave	erage				
						New	Replace-	Total		Annual average	Middle 50 pe	ercent
SOC Code	Occupational Title	2002	2012	Numeric	Percent	Jobs	ments	Openings	Typical education or training path	wage	hourly wage	
47-2111	Electricians	1,880	2,330	450	23.9%	50	40	90	Long-term on-the-job training	\$40,409	\$15.38 - \$	\$23.06
47-2121	Glaziers	90	110	20	22.2%	<5	<5	<5	Long-term on-the-job training	\$24,826	\$6.62 - \$	\$16.33
47-2130	Insulation Wrkrs	180	210	30	16.7%	<5	10	10	Moderate-term on-the-job training	\$30,648	\$11.35 - \$	\$18.10
47-2141	Painters/Const/Maint	690	810	120	17.4%	10	10	20	Moderate-term on-the-job training	\$29,840	\$11.01 - \$	\$17.01
47-2142	Paperhangers	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	* -	*
47-2151	Pipelayers	60	70	10	16.7%	<5	<5	<5	Moderate-term on-the-job training	\$41,435	\$16.78 - \$	\$22.92
47-2152	Plumbers/Pipefitters/Steamfitters	1,340	1,640	300	22.4%	30	30	60	Long-term on-the-job training	\$43,994	\$16.30 - \$	\$26.63
47-2161	Plasterers/Stucco Masons	100	120	20	20.0%	<5	<5	<5	Long-term on-the-job training	\$33,419	\$12.41 - \$	\$16.87
47-2171	Reinforcing Iron/Rebar Wrkrs	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	* -	*
47-2181	Roofers	270	330	60	22.2%	10	10	20	Moderate-term on-the-job training	\$30,638	\$11.57 - \$	\$16.87
47-2211	Sheet Metal Wrkrs	690	840	150	21.7%	20	20	40	Moderate-term on-the-job training	\$37,807	\$13.31 - \$	\$23.02
47-2221	Structural Iron and Steel Wrkrs	130	150	20	15.4%	<5	<5	<5	Long-term on-the-job training	\$33,532	\$10.60 - \$	\$17.26
47-3011	Helprs-Brick/Block/Stone/Tile/Marble	120	130	10	8.3%	<5	10	10	Short-term on-the-job training	\$32,779	\$11.71 - \$	\$19.85
47-3012	HelpersCarpenters	160	200	40	25.0%	<5	10	10	Short-term on-the-job training	\$27,958	\$10.27 - \$	\$15.94
47-3013	HelpersElectricians	110	130	20	18.2%	<5	10	10	Short-term on-the-job training	\$28,134	\$11.17 - \$	\$16.86
47-3014	HelprsPaint/Paper/Plaster/Stucco	50	60	10	20.0%	<5	<5	<5	Short-term on-the-job training	\$21,709	\$9.38 - \$	\$12.12
47-3015	HelprsPipelay/Plumb/Pipe/Steam	160	180	20	12.5%	<5	10	10	Short-term on-the-job training	\$24,036	\$8.94 - \$	\$14.04
47-3016	HelpersRoofers	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	* -	*
47-3019	Helpers/Const Trades/All Other	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	* -	*
47-4011	Const/Bldg Inspectors	120	130	10	8.3%	<5	<5	<5	Work exp. in a related occupation	\$42,468	\$17.27 - \$	\$25.53
47-4021	Elevator Installers and Repairers	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	* -	*
47-4031	Fence Erectors	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	* -	*
47-4041	Hazardous Materials Removal Wrkrs	60	80	20	33.3%	<5	<5	<5	Moderate-term on-the-job training	\$33,727	\$13.00 - \$	\$17.40
47-4051	Highway Maintenance Wrkrs	610	640	30	4.9%	<5	10	10	Moderate-term on-the-job training	\$29,949	\$12.47 - \$	\$16.87
47-4061	Rail-Track Layng/Maint Eqpmnt Oprs	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	* -	*
47-4071	Septic Tnk Srvcrs/Sewer Pipe Clnrs	80	100	20	25.0%	<5	<5	<5	Moderate-term on-the-job training	\$29,160	\$11.12 - \$	\$15.94
47-4091	Segmental Pavers	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	* -	*
47-4999 ⁽⁷⁾	Const Trades/Rel Wrkrs/AO	70	80	10	14.3%	<5	<5	<5	Moderate-term on-the-job training	\$32,251	\$12.41 - \$	\$18.04
47-5021	Earth Drillers/Ex Oil/Gas	80	100	20	25.0%	<5	<5	<5	Moderate-term on-the-job training	\$33,207	\$13.84 - \$	\$17.82
47-5031	Explsv/Ordnc Handlng Exprts/Blastrs	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	* -	*
47-5040 ⁽⁸⁾	Mining Machine Oprs	10	10	0	0.0%	<5	<5	<5			-	

		Estimate e	employment	Cha	ange		Annual ave	rage				
			-]	Annual		
SOC Code	Occupational Title	2002	2012	Numeric	Percent	New Jobs	Replace- ments	Total Openings	Typical education or training path	average	Middle 50	
47-5041 ⁽⁸⁾	Occupational Title Cont Mining Mach Opr	(8)				(8)			Moderate-term on-the-job training	wage *	hourly wag	ge range *
47-5042 ⁽⁸⁾	Mine Cut/Channel Mach Opr	(8)	(8)	(8)	(8)	(8)	(8)		Moderate-term on-the-job training	*	* -	*
47-5051	Rock Splitters, Quarry	*	*	*	*	<5	<5		Moderate-term on-the-job training	*	* -	*
47-5081	HelpersExtraction Wrkrs	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	* -	*
47-5099	Extraction Wrkrs/All Other	*	*	*	*	<5	<5		Moderate-term on-the-job training	*	* -	*
49-0000	Installation/Maint/Repair Occs	12,740	14,140	1,400	11.0%	140	300	440	g	\$35,555	\$12.86 -	\$20.46
49-1011	First-Line Supvsrs/Mgrs of Mechs/Inst/Rep	1,090	1,210	120	11.0%	10	30	40	Work exp. in a related occupation	\$51,203	\$19.09 -	\$28.56
49-2011	Computer/ATM/Offc Machn Reprrs	150	170	20	13.3%	<5	<5	<5	Postsecondary vocational training	\$32,745	\$12.15 -	\$19.23
49-2021	Radio Mechanics	*	*	*	*	<5	<5	<5	Postsecondary vocational training	*	* -	*
49-2022	Telecm Eqp Inst/Reprrs/Ex Line Inst	150	160	10	6.7%	<5	<5	<5	Postsecondary vocational training	\$40,870	\$16.45 -	\$23.19
49-2091	Avionics Techs	*	*	*	*	<5	<5	<5	Postsecondary vocational training	*	* -	*
49-2092	Elec Motor/Power Tool/Rel. Reprrs	90	90	0	0.0%	<5	<5	<5	Postsecondary vocational training	\$50,007	\$16.75 -	\$32.46
49-2093	Elec Installers/Repairers/Trans Eqp	*	*	*	*	<5	<5	<5	Postsecondary vocational training	*	* -	*
49-2094	Elec Repairers/Comm/Ind Equip	150	170	20	13.3%	<5	<5	<5	Postsecondary vocational training	\$38,505	\$13.99 -	\$22.40
49-2095	Elec Reprrs/Powerhse/Substn/Relay	130	120	-10	-7.7%	<5	<5	<5	Postsecondary vocational training	\$60,265	\$25.79 -	\$32.68
49-2096	Elec Equip Instlrs/Reprrs/Motor Veh	*	*	*	*	<5	<5	<5	Postsecondary vocational training	*	* -	*
49-2097	Elec Home Ent Eqpmnt Inst/Reprrs	50	60	10	20.0%	<5	<5	<5	Postsecondary vocational training	\$27,302	\$10.98 -	\$13.87
49-2098	Security/Fire Alarm Systems Inst	*	*	*	*	<5	<5	<5	Postsecondary vocational training	*	* -	*
49-2099 ⁽⁷⁾	Elec Equip Mechs/InstIrs/Reprrs/AO	*	*	*	*	<5	<5	<5	Postsecondary vocational training	*	* -	*
49-3011	Aircraft Mechanics/Service Techs	60	70	10	16.7%	<5	<5	<5	Postsecondary vocational training	\$29,512	\$11.31 -	\$16.99
49-3021	Automotive Body/Related Repairers	430	490	60	14.0%	10	10	20	Long-term on-the-job training	\$31,577	\$12.02 -	\$17.10
49-3022	Automotive Glass Installers/Reprrs	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	* -	*
49-3023	Automotive Service Techs/Mechanics	1,650	1,830	180	10.9%	20	40	60	Postsecondary vocational training	\$30,107	\$11.59 -	\$17.18
49-3031	Bus/Truck Mechs/Diesel Engn Spec	710	800	90	12.7%	10	20	30	Postsecondary vocational training	\$33,179	\$13.51 -	\$17.84
49-3041	Farm Equipment Mechanics	170	180	10	5.9%	<5	<5	<5	Postsecondary vocational training	\$33,533	\$13.61 -	\$17.94
49-3042	Mobile Hvy Eqpmnt Mechs/Ex Engns	230	250	20	8.7%	<5	10	10	Postsecondary vocational training	\$39,056	\$16.19 -	\$21.24
49-3043	Rail Car Repairers	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	* -	*
49-3051	Motorboat Mechanics	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	* -	*
49-3052	Motorcycle Mechanics	50	50	0	0.0%	<5	<5	<5	Long-term on-the-job training	\$29,255	\$11.37 -	\$16.75
49-3053	Outdr Powr Eqp/Othr Sm Engn Mchs	70	80	10	14.3%	<5	<5	<5	Moderate-term on-the-job training	\$24,106	\$8.97 -	\$13.71
49-3091	Bicycle Repairers	30	30	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	\$20,349	\$8.73 -	\$10.95

		Estimate e	employment	Cha	ange	,	Annual ave	erage				
									1	Annual		
SOC Code	Occupational Title	2002	2012	Numeric	Percent	New Jobs	Replace- ments	Total Openings	Typical education or training path	average	Middle 50 p	
49-3092	Recreational Vehicle Service Techs	30	40	10	33.3%	<5	<5			wage \$29,511	hourly wage \$11.38 -	
49-3093	Tire Repairers/Changers	130	130	0	0.0%	<5	10	10	Short-term on-the-job training	\$22,808		\$12.69
49-3099 ⁽⁷⁾	Veh/Mbl Eqp Mechs/Instl/Reprrs/AO	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	* -	*
49-9011	Mechanical Door Repairers	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	* -	*
49-9012	Cntrl/Valve Inst/Rep/Ex Mechn Door	140	150	10	7.1%	<5	<5	<5	Moderate-term on-the-job training	\$43,747	\$18.05 -	\$22.04
49-9021	Heating/AC/Refrig Mechs/InstIrs	420	570	150	35.7%	20	10	30	Long-term on-the-job training	\$36,109	\$13.28 -	\$20.52
49-9031	Home Appliance Repairers	100	110	10	10.0%	<5	<5	<5	Long-term on-the-job training	\$28,663	\$11.68 -	\$15.96
49-9041	Industrial Machnry Mechanics	840	880	40	4.8%	<5	20	20	Long-term on-the-job training	\$40,592	\$15.56 -	\$24.09
49-9042	Maint/Repair Wrkrs/General	3,220	3,610	390	12.1%	40	60	100	Long-term on-the-job training	\$32,272	\$12.21 -	\$18.55
49-9043	Maint Wrkrs/Machnry	320	330	10	3.1%	<5	10	10	Long-term on-the-job training	\$34,463	\$14.13 -	\$19.39
49-9044	Millwrights	350	340	-10	-2.9%	<5	10	10	Long-term on-the-job training	\$46,556	\$18.02 -	\$26.54
49-9045	Refractory Mtrls Reprs/Ex Brickmsns	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	* -	*
49-9051	Elec Power-Line Installrs/Repairers	450	440	-10	-2.2%	<5	10	10	Long-term on-the-job training	\$48,640	\$19.38 -	\$28.13
49-9052	Telecomm Line Installers/Reprrs	330	400	70	21.2%	10	10	20	Long-term on-the-job training	\$36,291	\$14.41 -	\$20.45
49-9062	Medical Equipment Repairers	30	40	10	33.3%	<5	<5	<5	Associate degree	\$38,012	\$14.73 -	\$21.74
49-9063	Musical Instr Repairers/Tuners	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	* -	*
49-9064	Watch Repairers	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	* -	*
49-9069	Precision Inst/Eqpmnt Repairers/AO	40	40	0	0.0%	<5	<5	<5	Long-term on-the-job training	\$64,607	\$14.60 -	\$43.16
49-9091	Coin/Vend/Amuse Machn Serv/Repr	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	* -	*
49-9092	Commercial Drivers	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	* -	*
49-9093	Fabric Menders/Ex Garment	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	* -	*
49-9094	Locksmiths/Safe Repairers	20	20	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	\$27,804	\$10.22 -	\$16.19
49-9095	Manufactured Bldg/Mobile Home Inst	20	20	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	\$21,869	\$8.12 -	\$12.75
49-9096	Riggers	90	100	10	11.1%	<5	<5	<5	Short-term on-the-job training	\$33,656	\$11.90 -	\$20.33
49-9098	HelpersInstall/Maint/Repair Wrkrs	370	430	60	16.2%	10	10	20	Short-term on-the-job training	\$24,842	\$9.19 -	\$14.09
49-9099	Installation/Maint/Repair Wrkrs/AO	220	250	30	13.6%	<5	10	10	Moderate-term on-the-job training	\$32,504	\$11.05 -	\$19.29
51-0000	Production Occs	48,260	49,120	860	1.8%	90	1,160	1,250		\$29,975	\$10.66 -	\$17.23
51-1011	First-Line Sups/Mgrs of Prdn/Operat Wrkrs	3,170	3,480	310	9.8%	30	70	100	Work exp. in a related occupation	\$44,449	\$15.94 -	\$24.26
51-2011	Aircraft Struct/Surf/Riggng/Sys Assembler	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	* -	*
51-2021	Coil Winders/Tapers/Finishers	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	* -	*
51-2022	Electrical/Electronic Equpmnt Assemblers	350	310	-40	-11.4%	<5	10	10	Short-term on-the-job training	\$32,410	\$11.23 -	\$18.92

		Estimate e	employment	Cha	inge		Annual ave	rage				
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SOC Code	Occupational Title	2002	2012	Numeric	Percent	New Jobs	Replace- ments	Total Openings	Typical education or training path	average wage	Middle 50 hourly was	•
51-2023	Electromechanical Equpmnt Assemblers	170	160	-10	-5.9%	<5	< 5		Short-term on-the-job training	\$30,176		
51-2031	Engine/Other Machn Assemblers	240	230	-10	-4.2%	<5	10	10	Short-term on-the-job training	\$34,586	\$15.06 -	\$19.06
51-2041	Structural Metal Fabricators/Fitters	520	530	10	1.9%	<5	10	10	Moderate-term on-the-job training	\$32,543	\$12.60 -	\$18.27
51-2091	Fiberglass Laminators/Fabricators	*	*	*	*	<5	20	20	Moderate-term on-the-job training	*	* -	*
51-2092	Team Assemblers	5,210	5,080	-130	-2.5%	<5	140	140	Moderate-term on-the-job training	\$26,229	\$9.51 -	\$15.55
51-2093	Timng Device Assemb/Adjustrs/Calibr	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	* -	*
51-2099	Assemblers/Fabricators/All Other	720	670	-50	-6.9%	<5	20	20	Moderate-term on-the-job training	\$24,519	\$9.03 -	\$13.83
51-3011	Bakers	470	530	60	12.8%	10	10	20	Long-term on-the-job training	\$21,005	\$8.19 -	\$11.60
51-3021	Butchers/Meat Cutters	420	430	10	2.4%	<5	10	10	Long-term on-the-job training	\$26,214	\$10.01 -	\$15.21
51-3022	Meat/Poultry/Fish Cutters/Trimmers	210	260	50	23.8%	<5	10	10	Short-term on-the-job training	\$23,315	\$9.73 -	\$12.57
51-3023	Slaughterers/Meat Packers	*	*	*	*	30	30	60	Moderate-term on-the-job training	*	* -	*
51-3091	Food/Tobac Bake/Dry/Mchn Op/Tndrs	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	* -	*
51-3092	Food Batchmakers	610	630	20	3.3%	<5	20	20	Short-term on-the-job training	\$26,341	\$10.11 -	\$14.08
51-3093	Food Cooking Machn Oprs/Tendrs	250	260	10	4.0%	<5	10	10	Short-term on-the-job training	\$31,697	\$14.27 -	\$17.02
51-3099 ⁽⁷⁾	Food Processing Wrkrs/All Other	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	* -	*
51-4011	Comp-Cntrld Machn Tool Op/M/P	1,020	1,110	90	8.8%	10	20	30	Moderate-term on-the-job training	\$32,660	\$13.12 -	\$18.10
51-4012	Num Tool/Procss Cntrl Programmrs	100	110	10	10.0%	<5	<5	<5	Long-term on-the-job training	\$38,610	\$15.85 -	\$20.98
51-4021	Extrud/Draw Mchn Set/Op/Tndrs/M/P	550	600	50	9.1%	<5	20	20	Moderate-term on-the-job training	\$24,715	\$10.44 -	\$13.51
51-4022	Forge Machn Set/Op/Tndrs/M/P	220	240	20	9.1%	<5	<5	<5	Moderate-term on-the-job training	\$31,412	\$12.17 -	\$18.73
51-4023	Roll Machn Set/Op/Tndrs/M/P	120	120	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	\$30,150	\$12.11 -	\$16.78
51-4031	Cut/Punch/Press Set/Op/Tndrs/M/P	1,490	1,510	20	1.3%	<5	30	30	Moderate-term on-the-job training	\$28,359	\$11.28 -	\$15.88
51-4032	Drill/Bore Tool Set/Op/Tndrs/M/P	230	220	-10	-4.3%	<5	10	10	Moderate-term on-the-job training	\$28,154	\$11.30 -	\$16.19
51-4033	Grind/Lap/Polish/Buff Set/Op/Tnd/M/P	750	730	-20	-2.7%	<5	10	10	Moderate-term on-the-job training	\$32,806	\$12.20 -	\$19.75
51-4034	Lathe/Turn Tool Set/Op/Tndrs/M/P	490	470	-20	-4.1%	<5	10	10	Moderate-term on-the-job training	\$30,758	\$12.15 -	\$17.28
51-4035	Mill/Plane Mchn Set/Op/Tndrs/M/P	110	120	10	9.1%	<5	<5	<5	Moderate-term on-the-job training	\$35,604	\$15.17 -	\$19.26
51-4041	Machinists	1,890	1,890	0	0.0%	<5	40	40	Long-term on-the-job training	\$35,413	\$14.85 -	\$19.85
51-4051	Metal-Refining Furnace Ops/Tendrs	100	100	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	\$36,257	\$15.16 -	\$20.15
51-4052	Pourers/Casters/Metal	130	120	-10	-7.7%	<5	<5	<5	Moderate-term on-the-job training	\$34,939	\$14.96 -	\$18.96
51-4061	Model Makers/Metal/Plastic	30	30	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	\$41,931	\$17.43 -	\$21.57
51-4062	Patternmakers/Metal/Plastic	160	150	-10	-6.3%	<5	10	10	Moderate-term on-the-job training	\$40,957	\$17.76 -	\$22.17
51-4071	Foundry Mold/Coremakers	280	260	-20	-7.1%	<5	10	10	Moderate-term on-the-job training	\$25,583	\$8.96 -	\$15.30

		Estimate e	employment	Cha	inge		Annual ave	erage			
SOC Code	Occupational Title	2002	2012	Numeric	J	New Jobs	Replace- ments	Total Openings	Typical education or training path	Annual average wage	Middle 50 percent hourly wage range
51-4072	Mold/Core/Cast Set/Op/Tndrs/M/P	1,050	1,130	80	7.6%	10	30	40	Moderate-term on-the-job training	\$29,151	
51-4081	Mult Mchn Tool Set/Op/Tndrs/M/P	630	700	70	11.1%	10	20	30	Moderate-term on-the-job training	\$29,783	\$12.30 - \$16.04
51-4111	Tool and Die Makers	520	510	-10	-1.9%	<5	10	10	Long-term on-the-job training	\$42,591	\$17.48 - \$23.09
51-4121	Welders/Cutters/Solderers/Brazers	1,780	1,950	170	9.6%	20	50	70	Postsecondary vocational training	\$32,245	\$13.66 - \$17.27
51-4122	Weld/Solder/Braze Mchn Set/Op/Tnd	280	270	-10	-3.6%	<5	10	10	Moderate-term on-the-job training	\$29,368	\$11.68 - \$16.19
51-4191	Heat Treat Eqp Set/Op/Tndrs/M/P	130	120	-10	-7.7%	<5	<5	<5	Moderate-term on-the-job training	\$35,333	\$13.85 - \$20.22
51-4192	Lay-Out Wrkrs/Metal/Plastic	110	120	10	9.1%	<5	<5	<5	Moderate-term on-the-job training	\$39,879	\$15.94 - \$22.41
51-4193	Plate/Coat Mchn Set/Op/Tndrs/M/P	150	140	-10	-6.7%	<5	<5	<5	Moderate-term on-the-job training	\$27,332	\$10.72 - \$15.57
51-4194	Tool Grinders/Filers/Sharpeners	120	110	-10	-8.3%	<5	<5	<5	Moderate-term on-the-job training	\$31,998	\$12.64 - \$18.17
51-4199	Metal Wrkrs/Plastic Wrkrs/All Other	200	210	10	5.0%	<5	10	10	Moderate-term on-the-job training	\$45,793	\$16.04 - \$27.71
51-5011	Bindery Wrkrs	670	620	-50	-7.5%	<5	20	20	Moderate-term on-the-job training	\$21,471	\$8.49 - \$11.24
51-5012	Bookbinders	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	* - *
51-5021	Job Printers	200	220	20	10.0%	<5	10	10	Long-term on-the-job training	\$34,384	\$13.41 - \$19.19
51-5022	Prepress Techs/Wrkrs	400	350	-50	-12.5%	<5	10	10	Long-term on-the-job training	\$32,020	\$11.68 - \$18.53
51-5023	Printing Machn Oprs	1,050	1,080	30	2.9%	<5	20	20	Moderate-term on-the-job training	\$33,459	\$12.19 - \$19.81
51-5099 ⁽⁷⁾	Printing Wrkrs/All Other	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	* - *
51-6011	Laundry/Dry-Cleaning Wrkrs	470	530	60	12.8%	10	10	20	Moderate-term on-the-job training	\$18,161	\$7.46 - \$10.11
51-6021	Pressers/Textile/Garment/Rel Mtrls	150	150	0	0.0%	<5	<5	<5	Short-term on-the-job training	\$18,270	\$7.67 - \$9.98
51-6031	Sewing Machine Oprs	650	630	-20	-3.1%	<5	10	10	Moderate-term on-the-job training	\$22,093	\$9.12 - \$12.24
51-6041	Shoe/Leather Wrkrs/Repairers	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	* - *
51-6042	Shoe Machine Oprs/Tendrs	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	* - *
51-6051	Sewers/Hand	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	* - *
51-6052	Tailors/Dressmakrs/Custom Sewrs	80	80	0	0.0%	<5	<5	<5	Work exp. in a related occupation	\$20,103	\$8.44 - \$10.81
51-6061	Textl Bleach/Dye Mchn Ops/Tndrs	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	* - *
51-6062	Textl Cuttng Mchn Set/Ops/Tendrs	40	30	-10	-25.0%	<5	<5	<5	Moderate-term on-the-job training	\$23,975	\$9.36 - \$14.39
51-6063	Textl Knit/Weav Mchn Set/Op/Tndrs	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	* - *
51-6064	Textl Wind/Twist/Draw Set/Op/Tndrs	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	* - *
51-6091	Extr/Form Set/Op/Tnd/Syn/Glss Fibr	30	40	10	33.3%	<5	<5	<5	Moderate-term on-the-job training	\$24,156	\$9.76 - \$13.23
51-6092	Fabric/Apparel Patternmakers	20	20	0	0.0%	<5	<5	<5	Long-term on-the-job training	\$27,780	\$10.92 - \$14.48
51-6093	Upholsterers	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	* - *
51-6099	Textile/Apparel/Furnishng Wrkrs/AO	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	* _ *

		Estimate o	mployment	Cha	inge	,	Annual ave	rage			
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						New	Replace-	Total		average	Middle 50 percent
<u> </u>	Occupational Title	2002	2012	Numeric	Percent	Jobs	ments	Openings	Typical education or training path	wage	hourly wage range
51-7011	Cabinetmakers/Bench Carpenters	610	660	50	8.2%	10	20	30	Long-term on-the-job training	\$26,499	
51-7021	Furniture Finishers	80	80	0	0.0%	<5	<5	<5	Long-term on-the-job training	\$27,572	\$11.38 - \$15.38
51-7031	Model Makers/Wood	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	* - *
51-7032	Patternmakers/Wood	50	50	0	0.0%	<5	<5	<5	Long-term on-the-job training	\$38,843	\$15.66 - \$22.01
51-7041	Saw Machn Set/Op/Tendrs/Wood	350	330	-20	-5.7%	<5	10	10	Moderate-term on-the-job training	\$24,428	\$9.50 - \$13.67
51-7042	Woodwrk Mchn Set/Op/Tndrs/Ex Saw	740	720	-20	-2.7%	<5	20	20	Moderate-term on-the-job training	\$24,054	\$9.68 - \$13.39
51-7099	WoodWrkrs, All Other	50	50	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	\$27,930	\$11.68 - \$15.30
51-8010 ⁽⁸⁾	Pwr PInt Oprs/Distributrs/Dispatchrs	350	320	-30	-8.6%	<5	10	10			-
51-8011 ⁽⁸⁾	Nuc Power Reactor Opr	*	*	*	*	(8)	(8)	(8)) Long-term on-the-job training	*	* - *
51-8012 ⁽⁸⁾	Power Dist/Disp	(8)	(8)	(8)	(8)	(8)	(8)	(8)) Long-term on-the-job training	\$63,356	\$25.03 - \$36.66
51-8013 ⁽⁸⁾	Power Plant Opr	(8)	(8)	(8)	(8)	(8)	(8)	(8)) Long-term on-the-job training	\$49,328	\$18.13 - \$28.44
51-8021	Stationary Engineers/Boiler Oprs	220	200	-20	-9.1%	<5	<5	<5	Long-term on-the-job training	\$35,608	\$15.23 - \$18.67
51-8031	Watr/Lqd Waste Trtmnt Plant/Sys Op	250	260	10	4.0%	<5	10	10	Long-term on-the-job training	\$38,654	\$15.77 - \$21.50
51-8091	Chemical Plant/System Oprs	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	* - *
51-8092	Gas Plant Oprs	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	* - *
51-8093	Petrol Pump Sys Op/Refinery Op/Gaug	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	* - *
51-8099	Plant/System Oprs/All Other	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	* - *
51-9011	Chemical Equipment Oprs/Tendrs	450	410	-40	-8.9%	<5	10	10	Moderate-term on-the-job training	\$37,424	\$15.74 - \$19.79
51-9012	Sep/Filtr/Clarify/Prec/Still Set/Op/Tnd	360	360	0	0.0%	<5	10	10	Moderate-term on-the-job training	\$32,088	\$12.99 - \$17.53
51-9021	Crush/Grnd/Polish Set/Op/Tndrs	290	270	-20	-6.9%	<5	10	10	Moderate-term on-the-job training	\$32,399	\$12.74 - \$17.14
51-9022	Grinding/Polishing Wrkrs/Hand	390	390	0	0.0%	<5	10	10	Moderate-term on-the-job training	\$27,039	\$10.53 - \$15.53
51-9023	Mix/Blend Machn Settrs/Oprs/Tendrs	420	370	-50	-11.9%	<5	10	10	Moderate-term on-the-job training	\$29,028	\$10.46 - \$14.49
51-9031	Cutters/Trimmers/Hand	80	90	10	12.5%	<5	<5	<5	Short-term on-the-job training	\$26,269	\$8.82 - \$15.96
51-9032	Cut/Slice Machn Settrs/Oprs/Tendrs	470	500	30	6.4%	<5	10	10	Moderate-term on-the-job training	\$27,524	\$11.82 - \$14.75
51-9041	Extr/Form/Press/Compct Set/Op/Tnd	380	340	-40	-10.5%	<5	10	10	Moderate-term on-the-job training	\$28,379	\$11.96 - \$15.49
51-9051	Furnce/Kln/Ov/Drier/Kettle Op/Tndrs	90	80	-10	-11.1%	<5	<5	<5	Moderate-term on-the-job training	\$27,947	\$11.06 - \$15.74
51-9061	Inspect/Test/Sort/Sample/Weighers	1,670	1,730	60	3.6%	10	40	50	Moderate-term on-the-job training	\$29,497	\$11.39 - \$16.82
51-9071	Jewel/Precious Stone/Metal Wrkrs	40	50	10	25.0%	<5	<5	<5	Postsecondary vocational training	\$35,678	\$14.13 - \$19.89
51-9081	Dental Lab Techs	*	*	*	*	<5	10	10	Long-term on-the-job training	*	* - *
51-9082	Medical Appliance Techs	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	* - *
51-9083	Ophthalmic Lab Techs	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	* _ *

		Estimate 6	employment	Cha	inge	F	Annual ave	rage			
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000 0 - 1-		2002	2012	Numeric	Percent	New Jobs	Replace- ments	Total	T wind a decorate a contact to a contact	average	Middle 50 perce
51-9111	Occupational Title	<u>l</u>			6.2%				Typical education or training path	wage \$27,803	hourly wage rar \$10.24 - \$16
51-9111	Packagng/Fillng Machn Oprs/Tendrs	2,250	2,390	140	6.6%	10	50		Short-term on-the-job training		\$10.24 - \$10
51-9121	Coat/Paint/Spray Mchn Set/Op/Tndrs	760	810	50		10	20		Moderate-term on-the-job training	\$26,957	
	Painters/Trans Equipment	140	160	20	14.3%	<5	<5		Moderate-term on-the-job training	\$31,288	\$12.31 - \$17
51-9123	Painting/Coating/Decorating Wrkrs	350	400	50	14.3%	10	10	20	Short-term on-the-job training	\$22,073	\$8.35 - \$12
51-9131	Photographic Process Wrkrs	80	90	10	12.5%	<5	<5	< 5	Moderate-term on-the-job training	\$23,807	\$8.26 - \$15
51-9132	Photographic Processing Mchn Oprs	90	100	10	11.1%	<5 (8)	<5	<5	Short-term on-the-job training	\$22,045	\$8.51 - \$12
51-9141 ⁽⁸⁾	Semiconductor Processors	(8)							Associate degree	*	* -
51-9191	Cementng/Glung Mchn Oprs/Tendrs	110	120	10	9.1%	<5	<5	<5	Moderate-term on-the-job training	\$26,743	\$8.75 - \$16
51-9192	Cln/Wash/Mtl PickIng Eqp Ops/Tndrs	100	100	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	\$32,169	\$11.94 - \$19
51-9193	Coolng/Freezng Eqpmnt Ops/Tendrs	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	* -
51-9194	Etchers/Engravers	40	40	0	0.0%	<5	<5	<5	Long-term on-the-job training	\$36,293	\$12.71 - \$22
51-9195	Moldrs/Shaprs/Castrs/Ex Mtl/Plastic	70	70	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	\$26,458	\$10.15 - \$15
51-9196	Paper Gds Machn Settrs/Oprs/Tndrs	1,320	1,250	-70	-5.3%	<5	30	30	Moderate-term on-the-job training	\$32,067	\$12.77 - \$18
51-9197	Tire Builders	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	* -
51-9198	HelpersProduction Wrkrs	2,560	2,500	-60	-2.3%	<5	70	70	Short-term on-the-job training	\$21,947	\$8.65 - \$11
51-9199 ⁽⁸⁾	Production Wrkrs/All Other	1,320	1,240	-80	-6.1%	<5	30	30	Moderate-term on-the-job training	\$37,502	\$14.46 - \$21
53-0000	Trans/Material Moving Occs	25,080	27,840	2,760	11.0%	280	530	810		\$28,682	\$9.30 - \$16
53-1011	Aircraft Cargo Handling Supvsrs	*	*	*	*	<5	<5	<5	Work exp. in a related occupation	*	* -
53-1021	F-L Sups/Mgrs Help/Lab/Matrl Movrs	360	400	40	11.1%	<5	10	10	Work exp. in a related occupation	\$38,743	\$13.92 - \$20
53-1031	F-L Sups/Mgrs Trans/Matrl-Mov Oprs	610	690	80	13.1%	10	10	20	Work exp. in a related occupation	\$47,376	\$16.71 - \$26
53-2011	Airline Pilots/Copilots/Flight Enginrs	*	*	*	*	<5	<5	<5	Bachelor's degree	*	* -
53-2012	Commercial Pilots	20	20	0	0.0%	<5	<5	<5	Postsecondary vocational training	\$45,058	-
53-2021	Air Traffic Controllers	*	*	*	*	<5	<5	<5	Bachelor's degree	*	* -
2099(7)(8)	Air Trans Wrkrs/All Other	(8)	(8)	(8)	(8)	(8)	(8)	(8)) Moderate-term on-the-job training	*	* -
53-3011	Ambulance Drivers/Atts/Ex EMTs	110	130	20	18.2%	<5	<5	<5	Moderate-term on-the-job training	\$17,712	\$6.91 - \$10
53-3021	Bus Drivers/Transit/Intercity	290	320	30	10.3%	<5	10	10	Moderate-term on-the-job training	\$25,692	\$9.45 - \$15
53-3022	Bus Drivers/School	1,010	1,280	270	26.7%	30	20	50	Short-term on-the-job training	\$23,051	\$9.24 - \$12
53-3031	Driver/Sales Wrkrs	680	710	30	4.4%	<5	10	10	Short-term on-the-job training	\$25,550	\$7.14 - \$15
53-3032	Truck Drivers/Heavy/Tractor-Trailer	6,560	8,000	1,440	22.0%	140	110	250	Moderate-term on-the-job training	\$37,894	\$13.67 - \$21
53-3033	Truck Drivers/Light or Delivery Srvcs	2,580	3,080	500	19.4%	50	20	70	Short-term on-the-job training	\$21,932	\$7.88 - \$12
53-3041	Taxi Drivers and Chauffeurs	320	400	80	25.0%	10	<5	_	Short-term on-the-job training	\$18,417	\$7.43 - \$10
	Silver and Chadrour	020	.00		_3.070		~~	.5		Ţ. O ,	Ţ5 Ţ 10

		Estimate employment		Change		Annual average						
SOC Code	Occupational Title	2002	2012	Numeric	Percent	New Jobs	Replace- ments	Total Openings	Typical education or training path	Annual average wage	Middle 50 hourly wag	
53-3099	Motor Vehicle Oprs/All Other	70	90	20	28.6%	<5	<5		Short-term on-the-job training	\$19,768	\$6.25 -	\$9.19
53-4099	Rail Trans Wrkrs/All Other	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	* -	*
53-5011	Sailors and Marine Oilers	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	* -	*
53-5021	Cptns/Mates/Pilots of Watr Vessels	*	*	*	*	<5	<5	<5	Work exp. in a related occupation	*	* -	*
53-5022	Motorboat Oprs	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	* -	*
53-5031 ⁽⁸⁾	Ship Engineers	(8)	(8)	(8)	(8)	(8)	(8)	(8	Postsecondary vocational training	*	* -	*
53-6011 ⁽⁸⁾	Bridge and Lock Tenders	(8)	(8)	(8)	(8)	(8)	(8)	(8	Short-term on-the-job training	*	* -	*
53-6021	Parking Lot Attendants	80	90	10	12.5%	<5	<5	<5	Short-term on-the-job training	\$18,562	\$8.02 -	\$10.02
53-6031	Service Station Attendants	150	160	10	6.7%	<5	10	10	Short-term on-the-job training	\$16,720	\$7.12 -	\$8.85
53-6041 ⁽⁸⁾	Traffic Techs	(8)	(8)	(8)	(8)	(8)	(8)	(8	Short-term on-the-job training	*	* -	*
53-6051	Transportation Inspectors	*	*	*	*	<5	<5	<5	Work exp. in a related occupation	*	* -	*
53-6099 ⁽⁸⁾	Trans Wrkrs/All Other	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	* -	*
53-7011	Conveyor Oprs and Tenders	150	160	10	6.7%	<5	<5	<5	Short-term on-the-job training	\$22,076	\$8.64 -	\$12.06
53-7021	Crane and Tower Oprs	130	140	10	7.7%	<5	<5	<5	Moderate-term on-the-job training	\$33,692	\$12.14 -	\$19.78
53-7031	Dredge Oprs	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	* -	*
53-7032	Excvtng/Loadng Mchn/Dragline Oprs	90	110	20	22.2%	<5	<5	<5	Moderate-term on-the-job training	\$39,966	\$15.54 -	\$21.66
53-7033	Loadng Mchn Oprs/Undrgrnd Mining	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	* -	*
53-7041	Hoist and Winch Oprs	10	10	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	\$23,697	\$9.62 -	\$10.98
53-7051	Industrial Truck/Tractor Oprs	2,190	2,300	110	5.0%	10	40	50	Short-term on-the-job training	\$28,715	\$11.58 -	\$15.99
53-7061	Cleaners of Vehicles/Equipment	800	850	50	6.3%	10	30	40	Short-term on-the-job training	\$19,241	\$7.18 -	\$10.99
53-7062	Labrs/Frght/Stock/Matrl Movers/Hand	4,750	4,610	-140	-2.9%	<5	160	160	Short-term on-the-job training	\$23,388	\$8.55 -	\$13.21
53-7063	Machn Feeders/Offbearers	860	840	-20	-2.3%	<5	20	20	Short-term on-the-job training	\$22,283	\$7.95 -	\$13.41
53-7064	Packers/Packagers/Hand	2,760	2,940	180	6.5%	20	50	70	Short-term on-the-job training	\$20,661	\$7.66 -	\$12.13
53-7071	Gas Compressor/Gas Station Oprs	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	* -	*
53-7072	Pump Oprs/Ex Wellhead Pumpers	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	* -	*
53-7081	Refuse/Recyclable Mtrl Collectors	180	190	10	5.6%	<5	10	10	Short-term on-the-job training	\$31,080	\$12.59 -	\$17.59
53-7121	Tank Car, Truck, and Ship Loaders	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	* -	*
53-7199	Material Moving Wrkrs/All Other	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	* -	*

Notes:

- (1) Employment is rounded to the nearest ten, with employment less than five rounded to zero. Totals may not add due to rounding. Employment does not include self-employed, unpaid family workers, or railroad employees.
- (2) Replacements are an estimate of the number of job openings expected because people have permanently left a given occupation. Permanent exits occur if someone dies, retires, or otherwise leaves the labor force. Permanent exits also include openings resulting from someone permanently changing occupations. For example, a person leaves their job as a cashier and becomes a truck driver.

 Openings resulting from people changing employers, but staying in the same occupation are not included.
- (3) Total openings are the sum of new jobs and replacements.
- (4) Typical Education and Training Path gives a general indication of the education or training typically needed in the occupation. There may be other pathways into the occupation, as well as additional educational, training Short-Term On-the-Job Training: These occupations require no more than one month of on-the-job training and the training usually happens at the workplace.

Moderate-Term On-the-Job Training: Training for these occupations usually occurs at the workplace and lasts from one to twelve months.

Long-Term On-the-Job Training: These occupations require more than one year of on-the-job training, or combined work experience and classroom instruction.

Work Experience in Related Occupation: Occupations in this category require skills and experience gained in other jobs.

Postsecondary Vocational Training: These formal training programs last from a few weeks to more than a year, and are offered at vocational or technical schools.

Associate Degree: This degree requires two years of full-time academic work beyond high school.

Bachelor's Degree: This degree requires four or five years of full-time academic work at a college or university.

Master's Degree: This degree requires one to two years of full-time study beyond a bachelor's degree.

Doctoral Degree: This degree usually requires at least three years of full-time study beyond a bachelor's degree.

First Professional Degree: These degrees typically require at least two years of full-time study beyond a bachelor's degree.

Bachelor's or higher degree, plus work experiencee: This requires a bachelor's or higher degree, in addition to work experience in a related non-managerial position.

- (5) Average Annual Salary: An occupation's average hourly wage is calculated by summing the wages of all employees in a given occupation and then dividing by the total number of employees in that occupation. In mos cases, the annual average salary is equal to the average hourly wage multiplied by 2,080.
- (6) Hourly Wage Rate Middle Range: The middle range identifies the 25th and 75th percentiles in the hourly wage distribution for a given occupation.
 - Fifty percent of the workers in the occupation earn wages in this range. In most cases, the entry level wage is at or below the 25th percentile.
- (7) This code is specific to the Occupational Employment Statistics (OES) Survey and is not an official SOC code.
- (8) 19-4099 includes employment for 19-4051. Education/training and wages are shown individually, if available.
 - 33-2020 includes employment for 33-2021 and 33-2022. Education/training and wages are shown individually, if available.
 - 47-5040 includes employment for 47-5041 and 47-5042. Education/training and wages are shown individually, if available.
 - 51-8010 includes employment for 51-8011, 51-8012, and 51-8013. Education/training and wages are shown individually, if available.
 - 51-9199 includes employment for 51-9141. Education/training and wages are shown individually, if available.
 - 53-6099 includes employment for 53-2099, 53-5031, 53-6011, and 53-6041. Education/training and wages are shown individually, if available.
- (9) Depending upon the specific position and employer either a bachelor's degree or an associate degree are most common for the occupation of registered nurse.
 - * Data is suppressed to preserve the confidentiality of employers. Some occupations with all suppressed data deleted.

Information is derived using the May 2003 OES Survey, 2002 QCEW and 2002 CES (3/03 Benchmark) data. Unpublished data from the US Bureau of Labor Statistics and US Census Bureau was also used.

To the extent possible, the projections take into account anticipated changes in Wisconsin's economy from 2002 to 2012. It is important to note that unanticipated events may affect the accuracy of these projections.

Source: Office of Economic Advisors, Wisconsin Department of Workforce Development, September 2004

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